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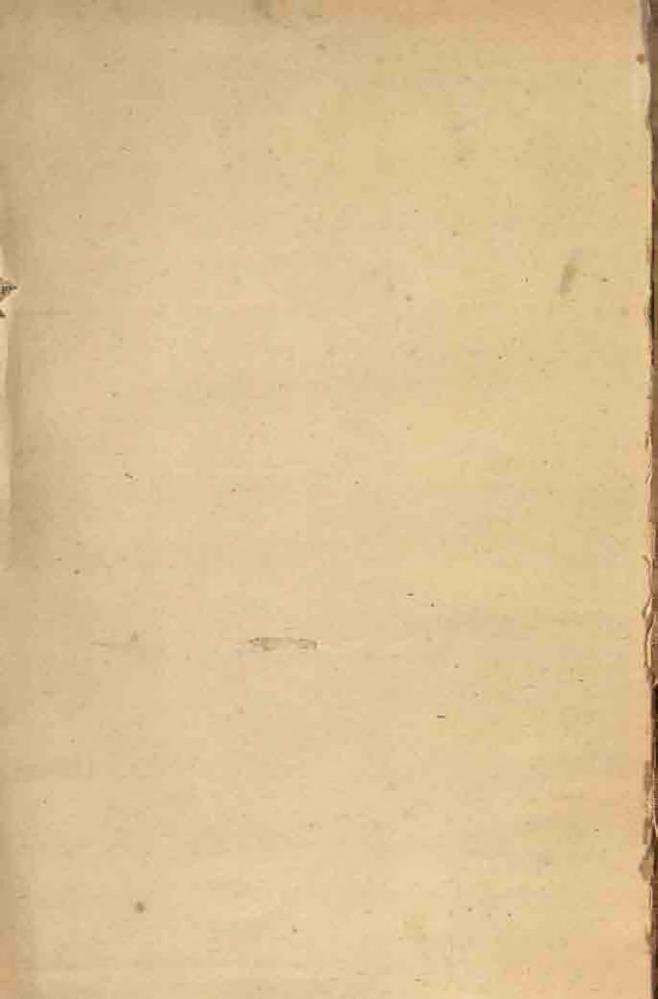
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THE JOURNAL

HELLENIC STUDIES

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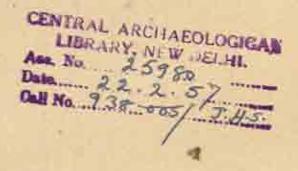
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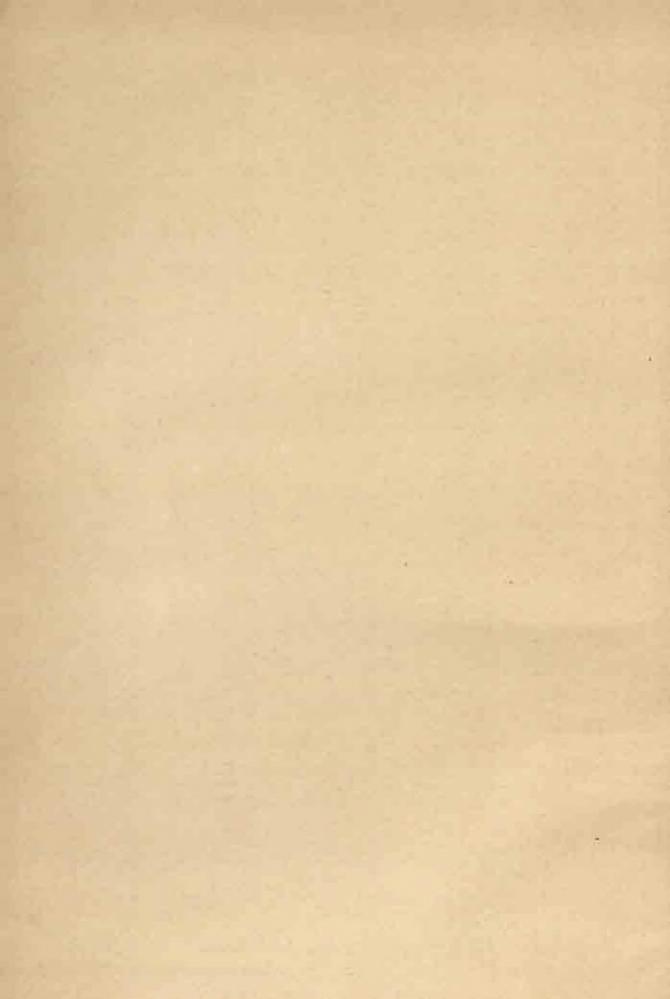
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RULES

OF THE

Society for the Promotion of Bellenic Studies.

- t. Tite objects of this Society shall be as follows:-
- I. To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Fiellenic periods, by the publication of memoirs and unedited documents or monuments in a Journal to be issued periodically.
- II. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions MSS., works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archæological and topographical interest
- .III. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archaeological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President; Vice-Presidents, a Council, a Treasurer, one or more Secretaries, 40 Hon. Members, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be er officer members of the Council.
- 3. The President shall preside at all General, Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside
- 4 The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conducive to the objects of the Society; in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty.

A

- 5. The Treasurer shall receive, on account of the Society, all subscriptions, donations, or other moneys accruing to the funds thereof, and shall make all payments ordered by the Council. All cheques shall be signed by the Treasurer and countersigned by the Secretary.
- In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.
- The Council shall meet as often as they may deem necessary for the despatch of business.
- Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- to. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- 11. The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- 12. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council, and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council.
- 13 Two Auditors, not being Members of the Council, shall be elected by the Society in each year.
- 14. A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.
- 15 The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- the President shall be elected by the Members of the Society at the Annual Meeting for a period of five years, and shall not be immediately eligible for re-election.
- 17. The Vice-Presidents shall be elected by the Members of the Society at the Annual Meeting for a period of one year, after which they shall be eligible for re-election.

- 18. One-third of the Council shall retire every year, but the Members so retiring shall be eligible for re-election at the Annual Meeting.
- 19. The Treasurer and Secretaries shall hold their offices during the pleasure of the Council.
- 20. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council
- It. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held.
- 22. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 23. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 24. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 25. The names of all candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their text Meeting the Council shall proceed to the election of candidates so proposed; no such election to be valid unless the candidate receives the votes of the majority of those present.
- 26. The Annual Subscription of Members shall be one guinea, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 155, entitling compounders to be Members of the Society for life, without further payment. All Members elected on or after January 1, 1905, shall pay on election an entrance fee of two guineas.
- 27. The payment of the Annual Subscription, or of the Life Composition, entitles each Member to receive a copy of the ordinary publications of the Society.
- 28. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.

- 29 Members intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1; otherwise they will be held liable for the subscription for the current year.
- 30 If at any time there may appear cause for the expulsion of a Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.
- 34. The Council shall have power to nominate 40 British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten
- 32. The Council may, at their discretion, elect for a period not exceeding five years Student-Associates, who shall be admitted to certain privileges of the Society.
- 33. The names of Candidates wishing to become Student-Associates shall be submitted to the Council in the manner prescribed for the Election of Members. Every Candidate shall also satisfy the Council by means of a certificate from his teacher, who must be a person occupying a recognised position in an educational body and be a Member of the Society, that he is a bond fide Student in subjects germane to the purposes of the Society.
- 34. The Annual Subscription of a Student-Associate shall be one guinea, payable and due on the 1st of January in each year. In case of non-payment the procedure prescribed for the case of a defaulting Ordinary Member shall be followed.
- 35. Student-Associates shall receive the Society's ordinary publications, and shall be entitled to attend the General and Ordinary Meetings, and to read in the Library. They shall not be entitled to borrow books from the Library, or to make use of the Loan Collection of Lantern Slides, or to vote at the Society's Meetings.
- 36. A Student-Associate may at any time pay the Member's entrance fee of two guineas, and shall forthwith become an Ordinary Member.
- 57. Ladies shall be eligible as Ordinary Members or Student-Associates of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members or Student-Associates.
- 38. No change shall be made in the Rules of the Society unless at least a fortnight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed.

RULES FOR THE USE OF THE LIBRARY

AT 19 HLUOMSBURY SQUARE, W.C.

- 1. That the Hellenic Library be administered by the Library Committee, which shall be composed of not less than four members, two of whom shall form a quorum.
- 11. That the custody and arrangement of the Library be in the bands of the Hon. Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.
- III. That all books, periodicals, plans, photographs, &c., be received by the Hon. Librarian, Librarian or Secretary and reported to the Council at their next meeting.
- IV. That every book or periodical sent to the Society be at once stamped with the Society's name.
- V. That all the Society's books be entered in a Catalogue to be kept by the Librarian, and that in this Catalogue such books, &c., as are not to be lent out be specified.
- VI. That, except on Christmas Day, Good Friday, and on Bank Holidays, the Library be accessible to Members on all week days from 10.30 A.M. to 5.30 P.M. (Saturdays, 10 A.M. to 1 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation for August and the first week of September.
- VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:-
 - (1) That the number of volumes lent at any one time to each Member shall not exceed three; but Members belonging both to this Society and to the Roman Society may borrow sex volumes at one time.
 - (2) That the time during which such book or books may be kept shall not exceed one month.
 - (3) That no books, except under special circumstances, be sent beyond the limits of the United Kingdom.
 - VIII. That the manner in which books are lent shall be as follows:-
 - (1) That all requests for the loan of books be addressed to the Librarian.
 - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
 - (3) That in each case the name of the book and of the borrower be inscribed, with the date, in a special register to be kept by the Librarian.

(4) Should a book not be returned within the period specified, the Librarian may reclaim it.

(5) All expenses of carriage to and fro shall be borne by the berrower.

(6) All books are due for return to the Library before the summer

IX. That no book falling under the following categories be lent out under any circumstances :-

(1) Unbound books,

(2) Detached plates, plans, photographs, and the like. (3) Books considered too valuable for transmission.

(4) New books within one month of their coming into the Library.

X. That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library

XI. That in the case of a book being kept beyond the stated time the borrower he Hable to a fine of one shilling for each week after application has been made by the Librarian for its return, and If a book is lost the berrower be bound to replace it:

XII. That the following be the Rules defining the position and privileges of Subscribing Libraries :-

a. Subscribing Libraries are entitled to receive the publications of the Society on the same conditions as Members.

b Subscribing Libraries, or the Librarians, are permitted to purchase photographs, lantern slides, etc., on the same conditions as Members.

c. Subscribing Libraries and the Librarians are not permitted to hire lantern slides.

d. A Librarian, if he so desires, may receive notices of meetings and may attend meetings, but is not entitled to vote on questions of private business.

c. A Librarian is permitted to read in the Society's Library.

f. A Librarian is not permitted to borrow books either for his own use, or for the use of a reader in the Library to which he is attached.

The Library Committee.

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*Mr. G. D. HARDINGE-TYLER,

PROF. F. HAVERFIELD.

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"MR. T. RICE HOLMES.

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MR. J. M. BAKER-PENOVRE (Librarian).

Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the Librarian, at 19 Bloomsbury Square, W.C.

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Berlin, Kanigliche Bibliothek, Berlin,

Königliche Universitüts-Bibliothek, Rerlin Bibliothek der Königlichen Museen, Berlin.

Breslau, Konigliche und Universitäts Bibliothek, Berelau.

Dresden, Khaigliche Skulpturensammlung, Irrenden,

Erlangen, Universitäts-Bibliothek, Erlangen,

Preiburg, Universitäts-Hibitothek, Freiburg J. Br., Ruden (Prof. Steap).

Gisssen, Philologisches Seminar, Giessen. Gottingen. Universitate-lithiinthek, colletingen.

Archialogisches Institut der Universität.

Greifswald, Universitäts-Bibliothek, Gevifreield.

Heidelberg, Universitäts-Bibliothek, Heidelberg.

Jens. Universitäts Bibliothek, Jems.

Kiel, Konigliche Universitäts-Bibliothek, Kiel

Konigsberg, Königh und Universitäts-Bibliothek, Königsberg.

Murburg, Universitats-Bibliothek, Murburg.

Library of the Archaeological Semmar.

Munater, Königliche Paulmische Bibliothek, Minster i. W.

Munich. Archaologisches Seminar der Königl. Universität, Galleviestrasse 4, Munchen

Komgl. Hof- and Staatsbibliothek, Munchen,

Rostock, Universitats-Hibliothek, Rastock, Mechlenburg. Strassburg, Kunstarchäulog, Institut der Universität, Stratsburg,

Universitäts und Lander-Ribliothek, Meutherg. Tübingen: Universitäts-Bibliothek, Tübingen, Wurtsemberg,

K Archaolog, Justim der Universität, Wilhelmstraue, 9, Tubingen, Würtlemberg.

Wurzburg, K. Universität, Konstgeschichtliches Museum, Würzburg, Ramurto.

GREECE.

Athens, The American School of Classical Studies, Athens.

K K Oesterreschisches Archaeol. Institut, Boulevard Alexandro 18, Athens.

HOLLAND.

Leiden, University Library, Littley, Helland,

Utrecht, University Lilieary, Gericht, Holland

ITALY.

Rome, The American Academy, Ports San Panerasio, Rome.

Turin, Biblioteca Namonale, Torino, Raly.

NORWAY.

Christiania, Universitate-Bilthothek, Christiania, Norway,

RUSSIA

St. Petersburg, La Bibliothèque Impériale Publique, St. Petersburg, Russia

SWEDEN.

Stockholm, Kongl. Bibliotekes, Spectholm, Sweden.
Uppsala, Kungl. Universiteters Bibliotek, Uppsala, Standen.

SWITZERLAND.

Geneva La Hibliothèque Publique, Genève, Switzerland.

Lansanne, L'Association de Locaures Philologiques, Avenue Dovel 5, Lansanne (Dr. H. Meylan-Faure).

Zürich, Kannons-Bibliothek, Zürich, Switzerland.

SYRLA

Jernsalem, Écolo Biblique de St. Étienne, Jérusalem,

LIST OF JOURNALS, &C., RECEIVED IN EXCHANGE FOR THE JOURNAL OF HELLENIC STUDIES.

American Journal of Archaeology (Miss Mary H. Buchingham, 96, Chestnut Street, Boston, Mars, U.S.A.).

American Journal of Philology (Library of the Johns Hopkins University, Bullimore, Maryland, U.S.A.).

Anniects Bollamliana, Société des Bollandistes, 22, Boulevard Saint-Michel, Brucelles Annales de la Faculté des Lettres de Bordeaux (Revue des Études Anciennes—Bolletis, Hispanique—Bulletin Italien). Réduction des Annales de la Faculté des Lettres, L'Enverente, Bordeaux, France.

Annals of Archineology and Anthropology (The Institute of Archineology, 40, Bedford Street, Liverpool).

Annual of the British School at Athens.

Archiv für Religionswissenschaft (B. G. Teubner, Leiptic);

Berliner Philalogische Wochenschrift (O. R. Rendand, Carlesfrass 20, Leipzig, Germany, Butlerin de Correspondance Hellénique (peblished by the French School at Athens). Bulletin de l'Institut Archéol. Russe, à Constantinople (M. la Secrétaire, L'Institut Archéol, Russe, Constantinople).

Bulletin de la Société Archéologique d'Alexandrie, Alexandria.

Bullettino della Commissione Archeologica Communie di Roma (Prof. Gatti, Museo Capitolino, Rossa)

Byzantinische Zeitschrift

Catalogue général des Antiquités Égyptiennes du Musée du Caire, with the Annaies du Service des Antiquités de l'Égypte, Carro.

Classical Philology, University of Chicago, U.S.A.

Ephemens Amhaiologike, Athens,

Glotta (Frot. Dr. Kretschmer, Floreumguste, 23, Vienna).

Hermes (Herr Professor Friedrich Leo, Friedlasmär Weg, Gottingen, Germany). Jahrboch des kais deutsch archäol. Institutes, Cornelliusstrates No. 2th, Berlin. Jahreshefte des Osterreichischen Archäologischen Institutes, Tärkenstrates 4, Vienna-Journal of the Authropological Institute, and Man, 30, Great Russill Street, W.C. Journal of Philology and Transactions of the Cambridge Philological Society.

Journal of the Royal Insumme of British Architects, 9, Conduct Street, W.

Journal International d'Archéologie Namistratique (M. J. N. Svoronos, Musée National, Athens).

Klio (Beiträge zur alten Goschichte), (Prof. E. Kurnemann, Neckarhalde 55, Tühingen,

Mélanges de la Faculté Orientale d'l'Université Se Joseph, Beyrouth, Syria.

Mélanges d'Histoire et d'Archéologie, École française, Palasse Farnere, Rome.

Menmon (Prof. Dr. R. Freihurz von Lichtenlung, Lindenstrause 5, Herlin Sildends, Germany).

Memorie dell'Instituto di Bologna, Samme di Scienze Storico-Filologiche (k. Aivademia di Bologna, Italy)

Mitteillungen des kais, deutsch, Archael Tratinus, Athens

Mittellungen des bais, deutsch Archiol. Instituts, Roure

Mnemosyne (c/o Mr. E. J. Brill), Leiden, Holland.

Neapolis, Signor Prot. V. Macchiero, Via Civilla 8, Naples.

Newe Jahrbucher, Herrn Dr. Rektos Ilberg, Kgl. Gymnasium, Warren, Sarony.

Noticie degil Scavi, R. Accademia del Lincel, Kome.

Numismatic Chronicle, 22, Albemark Street,

Philologue. Zeitschrift für das klassische Alterrum (c/o Dietrich'sche Verlags Buchbandlung, Göttingen)

Praktika of the Athenian Archaeological Society. Athens.

Proceedings of the Hellenie Philological Syllogos, Constantinopie.

Publications of the Impenal Archaeological Commission, St. Priersburg.

Revue Archiologique, c/o M. E. Leroux (Editeur), 28, Rue Romeforde, Paris

Revue des Étules Grecques, 44, Rue de Lille, Paris.

Revue Epigraphique (Mons A J. Reinich, 31, Rus di Berlin, Paris, VIII).

Rheintscher Meseum für Philologie (Prof. Dr. A. Brinkmann, Schumunusteusse 36, Bonn-om-Rhein, Germony).

Studier zur Geschichte und Kultus des Albertums (Prof. Dr. E. Brezup, Kaiser-Strater 33, Munich, Germany)

Wochenschrift für klassische Philologie, Beeten

PROCEEDINGS

SESSION 1913-14

During the past Session the following Papers were read at General Meetings of the Society:-

November 11th, 1913. Mr. Ellis H. Minns: Two Greek Documents of the First Century B.C. from near Avroman in Western Media (see below).

February 10th, 1914. Miss Jane Harrison: Possidon and the Minotaur (see below).

May 5th, 1914. Professor Ridgeway: The Early Iron Age in the Aegean Area (see below).

June 23rd, 1914. Dr. Walter Leaf: Presidential Address.

THE ANNUAL MEETING was held at Burlington House on June 23rd, 1914. At this meeting Dr. Walter Leaf was unanimously elected President of the Society for a term of five years.

Mr. George A. Macmillan, Hon. Secretary, presented the following Annual Report of the Council;—

The Council beg leave to submit the following report on the work of the Society for the Session 1913-1914.

The Presidency of the Society.—With great regret the Council have to announce the resignation of the Society's distinguished President, Sir Arthur Evans.

They wish to record their appreciation of the honour which his high reputation in England and abroad has brought to the chair, the value of the addresses and communications he has made during his tenure of office, and the wise counsel he has never falled to put at the disposal of the Council and officers in critical times.

They note with gratification Sir Arthur's recent election to the Presidency of the Society of Antiquaries.

They now have great pleasure in nominating for the Presidency Dr. Walter Leaf, who has acted as President since Sir Arthur's resignation. Dr. Leaf's services to Hellenic studies, especially in the field of Homeric scholarship, are widely known, and his nomination as President is the more appropriate owing to his long and intimate connexion with the Society, of

whose Journal he was for many years an editor, and of whose photographic collections he was a founder.

Changes on the Council, etc.—Sir Frederic Kenyon has accepted the office of Trustee announced in last year's report as vacant owing to the death of the late Lord Avebury. Professor J. G. Frazer has been nominated a Vice-President of the Society, and Mesars. H. I. Bell, Ellis H. Minns, and A. E. Zimmern have been nominated to fill vacancies upon the Council. The Society has been again indebted to Miss C. A. Hutton for help generously given to the Library and offices during the Secretary's absence through illness. Mr. Baker-Penoyre has now returned to his duties. Mr. F. Wise, the Society's clerk, has been promoted to the office of assistant-Librarian.

Among lesses by death during the year the Council record with regret the names of Sir William Anson, and of Dr. Barclay J. Head, the eminent numismatist.

Relations with other Bodies.—The alliance between the Hellenic and Roman Societies continues to work well, and the latter Society has recently raised its contribution to £50. The Roman Society is to be congratulated on the successful completion of a representative collection of casts of Romano-British Sculpture, the credit balance accruing from which is being devoted by the Council of the Roman Society to developing the Roman side of the joint library and slide-collection. Further works of value have been added by them to the Joint Library. The third volume of the Journal of Roman Studies approaches completion. The main contention of the founders of the Society and of the alliance between the two bodies, that the two Societies together would do more for Classical Studies than could ever have been achieved by the older Society alone, is amply justified.

The Council of the Hellenic Society has recently renewed its annual grants of £100 and £50 respectively to the British School at Athens and the Faculty of Archaeology and Letters of the British School at Rome. To the latter body they have also guaranteed a further £25 towards the cost of the second volume of the Catalogue of Sculpture in the Municipal Museums of Rome.

During the Session protracted conferences have taken place between representatives of the Hellenic and Roman Societies and of the Classical Association on the question of supplying slides to members of the teaching profession irrespective of their being members of the bodies named. As the Council had recently reduced the charge for the hire of slides by one half, and have since authorised the borrowing of slides by Schools which subscribe for the Journal without entrance fee, they feel that the Society could not go further in the matter without injustice to their members, in which attitude they are supported by the Council of the Roman Society. With a view to watching the interests of the Society they have appointed

a member of their body, Miss C. A. Hutton, to serve on the Classical Materials Board of the Classical Association which is engaged on drawing up a scheme.

A large number of slides of Greek and Roman coins have been presented to the slide-collection by the Council of the Royal Numismatic Society, the members of which Society, by arrangement, are entitled to borrow these slides on the same terms as members of the Hellenic Society,

The Council have recently accepted the Royal Archeological Institute as their tenant for a room on the upper floor at 113, Bloomsbury Square.

Library, The accessions to the Joint Library during the past Session were: Hellenic volumes, 205. (=179 books); completed volumes of periodicals, 84; pamphlets, 66; maps, 25. To these should be added Roman volumes, 64 (=48 books); volumes of periodicals, 17; pamphlets, 12; maps, 11. These together make a total of 484 items, against 489 of last year.

The number of volumes borrowed was 1087, and the number of visits paid to the Library, 1072 as against 938 and 800 respectively for the last Session.

The Council acknowledge with thanks, gifts of books from the following bodies: H.M. Government of India, the Board of Trade, the Trustees of the British Museum, the Director of the Service des Antiquités de l'Égypte, the Austrian Archaeological Institute, the Imperial Museum at Constantinople, the National Institute of Geneva, the Bryn Mawr Publications Committee, the Royal Archaeological Institute, and the University Presses of the following Universities California, Cambridge, Oxford, Princeton.

The following publishers have presented copies of recently published works: Messrs. Allen, Arnold, Beck, Blackwell, Champion, Eggimann, Fontemoing, Frowde, Geuthner, Heinemann, Kastner and Callwey, Klinsieck, Kundig, Lamertin, Laupp, Leroux, Langmans, Green and Co., Lund, Macmillan and Co., Methnen, Milford, Nisbet and Co., Parker and Co., Picard, Reimer, Routledge, Schunke, Tenhuer, Topelmann, and Weidmann.

The following authors have presented copies of their works: Messrs. R. Adolphe, L. Alexander, E. Babelon, A. Baldwin, H. I. Bell, M. Collignon, Prof. A. H. Cruikshank, Mr. J. Curle, Prof. W. Dörpfeld, Messrs, S. Eitrem, A. Elter, W. S. George, W. R. Halliday, R. T. Hart, Prof. F. Haverfield, Messes J. S. Jerome, G. Klaifenbach, Prof. C. F. Lehmann-Haupt, Prof. W. R. Letbaby, Messra G. E. Lung, W. Mooney, T. Davis Pryce, A. Reinach, H. L. Roth, Montague Sharpe, Prof. D. A. Slater, Messrs. J. Sundwall, H. J. W. Tillyard, L. O. Th. Tudeer, Prof. T. Wiegand, Prof. A. Wilhelm, Prof. P. Wolters, and Mr. F. de Zuläeta.

Miscellaneous donations of books have been received from Mr. H. I. Bell, Rev. A. H. Cooke, Messrs. W. Farside, W. S. George, C. H. Haines, W. R. Halliday, G. D. Hardinge-Tyler, F. W. Hasluck, Prof. F. Haverfield, Messrs. G. F. Hill, W. H. Knowles, J. G. Milne, J. Penoyre, Prof. J. S. Reid,

Sir John Sandys, Miss C. Sharpe, Messrs, R. Phéne Spiers, A. E. Zimmern.

A special debt of gratitude is owed to Mr. A. E. Zimmern who has presented to the Library a collection of over sixty volumes mainly dealing

with ancient political economy and history.

Among the more important acquisitions are:—G. L. Bell, Palace and Mosque at Uklaidir; E. Chatelain, Palicgraphic des Classiques Latines; the continuation almost to its completion of J. G. France, Golden Bough; F. Henkel, Römische Fingerringe; Inscriptiones Gracue ad res Romanus pertinentes; the Loch collection of Bronzes by J. Sieveking; E. H. Munrs, Scythians and Greeks. Th. Mammsen, Gesammelte Schriften; the Moscow Exempla codicum Gracorum; H. Schwader, Auswahl archaischer, Marmon Skulpturen im Akropolis-Museum zu Athan.

All the maps, plans, and charts in the Library have now been mounted on linen arranged in portfolios and adequately catalogued. They will be found in alphabetical order under the main heading of Maps in the Library Catalogue. A considerable portion of the Library grant was devoted to this very necessary work, but now that portfolios have been provided the

future expense in this department should not be heavy.

The chief feature of the year has been the publication of the complete Catalogue of the slides. This has been an expensive task as the work comprises more than 160 closely printed pages, and the proof correcting has been exceptionally, though necessarily, large; but the Council feel sure that both cost and labour are well spent. New features in the Catalogue are a full index and a supplement of selected lists of slides. It has been distributed (1913) free to members of both Societies and is now on sale, 2/5; interleaved for accessions, 3/6.

The slides hired during the Session were 3,746, those sold 1,681: 430 photographs were sold. The corresponding figures for last Session were

3.578, 506 and 354.

B.—Photographic Department.—Since the publication of the Catalogue, 473 Roman slides have been added to the collection. The Helienic additions made for the Catalogue were very numerous, and, since its publication, it has seemed better to devote the time at the Librarian's disposal to strengthening the Roman section. In this Mr. Hardinge-Tyler's co-operation has been invaluable, it is hoped that generous donors will bear in mind that the standard of photography continually rises and that, to maintain the character of the collection, materials should be looked at critically before presentation. It is also highly desirable that accurate identifications and references should be supplied:

In addition to the long list of donors named in the preface to the Catalogue, the thanks of the Society are due for help in this department to the Institut d'Estudis Catalans, the Royal Numismatic Society, Mr. St. C. Baddeley, Professor R. C. Bosanquet, Miss Bulwer, Messrs C. D. Chambers, G. L. Cheesman, G. A. T. Davies, Miss Gurney, Miss P. B. Mudie-Cooke,

Professor J. L. Myres, Miss Nicholson, Messrs. T. E. Pect, E. J. Seltman. A. J. Taylor, A. J. B. Wace, Mrs. Wilde, Messrs. F. H. N. Wilde, and A. G. Wright

General Meetings.—At the first General Meeting, held November 11th, 1913; Mr. Ellis H. Minns read an illustrated paper on Two Greek documents of the first century n.c. from near Avroman in Western Media. One of the parchments, being dated Anno Seleuci 225=88 n.c., was apparently the oldest document on parchment known, except a roll from Egypt referred to the 12th dynasty. The second was dated 295=22-1 n.c. Both related to conveyances of a vincyard called Dadbakabag. The wonder was that Greek was used in such a remote locality.

Professor Sayce, who replaced Sir Arthur Evans in the chair, said the interest and importance of the discovery lay in the evidence it afforded of the existence in the provinces to the north-west of what is now India of so strong an Hellenic element that Greek was used for legal and commercial purposes by persons who hore Iranian names and consequently could not

have been of Greek nationality.

Mr. Minns' interesting paper will, it is hoped, be published, with the

documents, in the next part of the Journal.

At the second General Meeting, held on Feb. 10th, 1914, Miss Jane Harrison read a paper on "Poseidon and the Minotaur." She urged (a) that the cult of Poseidon on the mainland of Greece was imported, not autochthonous; (b) that it reached the mainland from the South, not the North; (c) that in origin it was "Minoan," and in subsequent development became "Mycanican,' and ultimately Hellenic. The aspects of the god as Pontius, Hippius, and Taureus were explained on the new psychological method, which asks, nor what the god is, but what are the social activities and social structure of his worshippers. As Pontius and Pontomedon Poseidon is the project of a people who were fishermen traders, and ilialassocrats, as Hippius of a people of horsemen, as Taureus of a people who as herdsmen worshipped the Bull. Miss Harrison then asked the question. Was there in antiquity a people who were fishermen, traders, thalassocrats, who owned thorough-bred horses, and who as herdsmen worshipped the Bull? The answer was obvious. Mines of Crete was the first of the thalassocrats; his palace accounts show his command of horses and charlots from Libya, and his people worshipped the Bull of Minos. The Minotain was the primitive point de repère round which ultimately crystallized the complex figure of Poscidon.

At the third General Meeting, which was held on May 5th, 1914, Professor Ridgeway read a paper on "The Early Iron Age in the Ægean Area," of which he has kindly supplied the following summary:—

"All archaeologists up to 1836 held that the so-called Mycensian or Bronze Age custure had been brought in by some invading people or foreign influence. He then put forward the thesis that it had been evolved in the Ægean basin by a race domiciled there from the Neolithic period, a view since amply substantiated, especially by Sir A. J.

Evans's grand discoveries in Conssus, which he (Professor Ridgeway) had said would prove, if not the chief focus, at least one of the chief foci of the Egean culture. Selliemann and the rest had identified this Mycenman cubure with that of the Homeric poems. But as in the latter from was in general use for weapons and implements, even for the ploughshare, Professor Ridgeway was led to the conclusion that the tall, blond Acheans, or Hellenes, with their practice of cremution, use of Iron weapons, round thields, irrooches, so closely resembling the culture of the Eurly Iron Age of Central Europe and Upper Italy, were a 'Keltic' (Testonic) (ribe, who according to their own traditions had entered Greece, not all at once, but somewhere about the fourteenth century are, and had made thumselves lords of the indigenous people. The latter were termed Pelaszims by the Greeks themselves, though of course there were many different tribal pames, and some tribes were nowe advanced than others. He held that this autochthonous race of Greece was closely akin to the dark-complexioned indigenous Thracians, a view since substratified by our faller knowledge of the prehistoric archieology of Thrace and Messra. Wace and Thompson [Prohistoris Themaly, pp. 250-53] have disputed the Pelasgian theory on the ground that the early dwellers in the Argolid, the Minyana of Orchomenus, &c., have different kinds of pottery, but their arguments would lead to the conclusion that differences in primitive and local pottery denote not messly u tribal; but a racial difference.

"The two chief objections trised against his (Professor Ridgeway's) view that the Homeric Achains were a fair-haired tribe who brought in the use of iron brotches, round shields practice of cromation, and the Geometric or Dipylon style of ornament, were (); that there was no archeeological evidence for the 'averlap' of iron and bronze weapons regresenting the Homeric poems, as they stand, (2) that no trace of the Early Iron Age

gulturo had been found in Phthiotic, the home of the Acheuns.

"(1) Mr. Anthew Lung argued that there were no awords or spears of iron in use in Homer although that metal was used for uxes, knives, strows, plough), because the iron was too soft for spears and swords, and his view was adopted by Mr. T. W. Allen and by Messrs. Wace and Thompson in a recent paper. Yet the awards and spears in the half of Odysseus are collectively termed 'fron' [Od., xv] 204; xiz. (3) The line cannot be ejected to 'inorganic,' as the whole machinery for the slaying of the suitors depends upon it. Afready. East Crete had shown iron and bronze swords in the same tomb, though not with the same individual. Professor Kidgeway now exhibited a 'find' from a grave at Caldra comprising six bronze javelin heads (about 6 in Jung), five of iron of like types, a small from triffe, and a wherstone, from that still adhering to the brunic specimens. Thus the same individual had bronze and from weapons at the same moment, confirming his Professor Ridgeway's argument for Homer. If the owner of these pavelins had shan a for with one of his iron specimens, there seems no reasons to doubt that the bard would have celebrated his exploits with the conventional phrase that the slew him with the publices bronze. Thus, though maskers have not been used by the British Army since the Crimena War, Instruction is still given in maketry, and there are still Grenadier Guards, though hand grenades have not been used since the Peninsular War.

"(1) Messra. Wace and Thumpson, inving failed to find any Early Iron monali in Thessaly, in their Prehistoric Thessaly equate the 'local Thessalian civilization, though by itself of too low a type to fulfil Homeric requirements,' with the Homeric culture. Mr T W. Allen, following them, regards this as deadly to Professor Ridgeway's theory. But local Greek archaeologics had already noticed and parily investigated ten large tunnil at Halos in Phthlotis, not far from the Sperchelos, to which Achilles dedicated his hair. Some of the objects were already in the Halmyron Museum. Since then Messra. Wace and Thumpson have excavated one of these tunnil containing sixteen pyres' with cremated remains, from spears, swords and knives, brooches and pottery of simple Geometric forms. The swords are of two varieties, and belong to a general type spread over Central Europe and Italy. They differ in some respects from the Hallstati and Glasicale swords, but their tendency to widen at the lower end, as Messra. Wace and Thompson point out, brings them allower to the Dambian area than elsewhere. Thus the

Early Iron Age Culture has been proved for Phthiotis. But Messra. Wace and Thumpson, who are committed to a Bronze Age period as the background in Thessaly for Homer, try to differentiate the Tialos culture from that of Homer, by stating (a) that no from swords are in use in Homer (which is contrary to the Homeric text and to the evidence just given for the overlap of iron and bronze in the case of javelins), and (6) that whilst there are no usus at Halos, the burnt homes are always placed in usus in Homes. From the inuming of the bones of great men like Hertor, they havily assumed that ordinary folk were similarly treated. But the burnt remains of Elpenor (Od., xo. 13-16) were simply laid under a mound without any min. Mesors. Wace and Thompson suggest the ninth century n.c. as the date, making it Middle Geometric. Their ground is that us there are from swords, it is 'post-Homeric,' but that assumption has been disproved. But there are two classes of pottery, juga with cutaway neek, and ring stemment cases, which belong to the Bronze Age, and which they have to term "survivals." The presence of such types rather suggests the period succeeding the Bronze Age, and thus points to at least E.C. 1000. The brooches, though not of the emiliest types, may well date from the same period, n.c. toos. They rely also on the occurrence of a bird and of meander on the pottery. But, as animal forms are already found on Bronze Age objects in the Damiblan area, and as the unusualer is only a variety of the signag, and known at Sparta as early as R.C. 850, the grounds for their daring seems quite insufficient, and there is no reason why the cemetery should not date from p.c. tooo. That it is Acheas they seem to admit, for they say "that it may perhaps be an Achean burial in degenerate or modified form. The position of Halos in Achaia Phthiotis makes this view seem plausible." As their orguments for the later date do not bold, we may conclude that the cometery belongs not merely to Acheans, but to Acheans of the Homeric Age."

A set of objects from tombs of the Han Dynasty, illustrating the overlap of iron and bronze implements in China, and some Gaulish iron weapons and a La Tène brooch from Ephesus, were also shown.

Sir Henry Howorth, in remarking upon the paper, drew attention to the important questions arising from the traces of the Iron Age in the island of Elba.

Sir Arthur Evans wholly differed from Professor Ridgeway as to the idea that the Iron Age civilization had descended from the Hallstatt area into Greece. A mass of parallel evidence showed in his opinion, that the use of iron began in Greece and the Eastern Mediterranean some two centuries at least before it was known on the Middle Danube. In Sub-Minoan Crete its beginnings could be traced as early as the twelfth century u.c. It was known about the same time in Greece and Cyprus. Dr. Hoemes, the first authority, makes the first transition from bronze to iron in the Hallstatt Province about 1000 and brings the Hallstatt bronze swords down to 900-800, some three centuries later than the Aegean and East Mediterranean group. As regards the origin of the Iron Age civilization in Greece, Professor Ridgeway's main theses reversed the currents of history.

Professor Ridgeway replied that Sir Arthur Evans, for the date of Hallstatt and the brooches, was relying on the chronology of Montelins,

Sir Arthur Evans desires to say that he was not in any way referring to Montelius theories, neither was he discussing the origin of the Abada, which goes well back into the Bronze Age and has nothing to do with the Beginning of from.

which was based on the assumption that the brooch had been invented in Greece and gone north; whereas, since he himself had shown that the brooch was invented in the north and had come down from the north, the chronology had to be revised and the date of Hallstatt, &c., put back. He pointed out that Hoernes, though admitting that the brooch had been invented in central Europe, still clung to the chronology of Montelius based on the assumption that the brooch was invented in Greece.

Pinance.—The expenditure during the current year has been unusually beavy, the Income and Expenditure Account showing a deficit balance on the year of £241. Two items are mainly responsible for the large adverse balance: the cost of the new Catalogue of Lantern slides (to which the Roman Society will contribute a proportion) has been £143, while an additional £100 has been spent on the Society's fournal. Apart from these items the expenditure under the several headings appears at about the average amount. On the Income side of the account the only important difference is in the amount received for Entrance Fees, which shows a drop of £80. This, perhaps, was only to be expected, as the large increase in the membership roll last year was hardly likely to be maintained. With this exception all the sources of income show no falling off. The sales of the fournal are a trifle higher, while the Lantern Slides account, but for the charge for the new Catalogue above referred to, would have shown a balance of a few pounds.

The Cash Balance stands at £516 as compared with £662 last year. The heavier expenses met during the year account for part of the resluction, but, as was proposed in the last Report, a further £191 has been invested to cover receipts for the Endowment Fund and for Life Compositions. This sum, therefore, is still in the Balance Sheet under Assets In an increased amount under the heading of Investments. The amount appearing for Debts Payable, £406, is slightly higher than last year, as is also that for Debts Receivable which now stands at £176. The amount of arrears of members' subscriptions outstanding when the books closed was £117, but this amount is omitted in making up the accounts.

The total of the names on the ordinary membership roll is now 932 as against 946, the losses by death and other causes during the year having been very heavy, with the result that in spite of a good number of new members the total shows a decrease. The number of subscribing Libraries now stands at 200—an increase of three.

In presenting the financial statement the Council would point out that although, owing to heavy special expenditure, this year's figures do not appear so satisfactory as usual, the ordinary revenues have been well maintained. With a normal outlay next year the accounts should show a balance on the right side.

The Council must also express thanks again for the valued assistance given by members in making the Society's work known among their friends. So long as the standard of efficiency to which this report bears witness is

maintained, they feel that in so doing members are conferring rather than incurring an obligation. But to maintain that efficiency, in so many varied activities, an increase of membership is much to be desired, and any further help in this direction will be appreciated by the Council.

The Chairman then delivered his Presidential Address in the course of which he suggested a plan for the edition of a portion of Strabo's works, somewhat on the lines of Sir J. G. Frazer's Pausanias, in which the cooperation of the Hellenic Society would be desired. He concluded by moving the adoption of the Annual Report, which was seconded by Sir Archibald Geikie, put to the Meeting, and carried unanimously.

By a new arrangement the printed list of nominations for the election or re-election of officers submitted by the Council was adopted by a show of hands and not, as heretofore, by ballot.

FINANCIAL STATEMENT.

A comparison with the receipts and expenditure of the last ten years is familibed by the following tables :
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Books	Two typical inhumation graves at Remodello, tires in. (Bull. Pol. B. 131v. ph. 2.)
30034	Provincia di Rima. Combutte of the Spurgola temb and suppor area from near Falvell.
Biods	Vans from touch of & Cristma and objects of copper, the said flint, from the said of Mante
BURIT	Stone and copper instruments. Latine (full Comm. Sech. axv. pl. 3.)
B 6136	Daggers arrowboads, calls, buttoms, eds., of steam and copper, also pottery. From information toughs at Remodello and Communia. [Montellies, Lo continuous promotion
	en (5)(0, 14, 86.)
B6040	Organta, dalaams of Sferremavalla and Mistrylan. Ball, Pal. H. xxv, pl. 9.
\$4035	Painted partiery Orsi's Best Similar period) from Prov. of Gicgonti (id. txiil. pl. 1.1
34000	Early incited pottery from mear caglian (as axiv. pl. 17.)

BRONZE AGE (Arranged chromologically,)

1. Western Lake Dwellings (Early Bronze Age.)

B0027 B6103	Racly potting (Palaittie') from Cremona and Beessia. (of xxix, pl. 3.) Colin and other objects of nione, copper and artifornware. Early bronce ago	Pyton
-	'Unlatitie' on Lake Vares (Montaline, pl. 3.)	

INXXIV

B6036. Bronzs daggers, str. ['Palafitte'] from Londamy and Vennes. (Ball Pol. R. xxix, pl. 6.) 16127 Daggers, crits, sto. Early brance age. Found in depote in Paralley. (Montelius, pl 27.) 2. Eastern Lake Dwellings and Terremare (Full Bronze Age) interferences. B6031 Fontauellato : plan of the Cantellazzo terrumars Bull. Pol. Il raiti. pl. 4.) 26112. Terramam of Camona die Marchanto yiew, plan, and objects found. (Montaina, pl. 12.) 36114 calia, daguers, searchs, umulds, combs, pattery. (ol. pl. 14) Turramara of Guezano: pine, colts, duggers, "rasors," old. pl. 18. 36114 pottery, including knobbed and furrowed ware, cressest benefited B#118 and findings pd. pl. 18; 34117 pottery, cambe, months, could, etc. (ed pl. 17.1 B6030 Tarramara ware from Tarmitum: borned landles. (Ball. Pal. D. Erel. pl. 2.1 (b) Liebe Dwellians 36106 Palulitio sa Procluera : brouze daggers. (Montelina pl. 6.). B8107 bronce pine (ed pl. 71) 49. brome violin-how fibulae brandets and pendants (of pl. 8.) 34108 (c) Tarramures Counteries. Pottery from cremation topics at Consents and Crespollano. (id. pl., 39.) **国**87.86 B6135 Monte Louis, Bovalous and Carrollo, (at pl 32) (d. Hourds and Indated Finds, B0124 Sponder finds of violin-bow filmins, june, combs, which, str., from dwellings S. of Pu. B5128 Degrees and rolls of full brance age, found in depth of Cascina Rance (Milan) (44 pl 25) 30037 Brenze hourd from Modira (Syraense). [Bull. Pol. II. xxxi. pl 19.] 3. Hut Settlements of Terramara Period and Corresponding Tombs. 36111 Plans of hus foundations with objects of terramon type. Po valley (Mantelina, pl. 11.) 25127 Swords, daggers, and pine of brance, from inhammations at Poveglikov, Ind. pl. 87.) B6020 Daggers and are from isolated tomb (burial vita immersain) of marly bronze age at Parco dei Monaci. (Eull. Pel. II. xxvi pl. 1.) TRANSITION TO IRON AGE (Arranged throad-operatio) Bold Filming pattery, and miscalines from memation tombs at Birmantova. (Monteline, pl. 41.) B0142 Archad box fibulia, plus, pottery, sic., from granuting combo at Mononeco. (id pl. 42) IRON AGE (Arranged prographically). 1. Villanova Group Proper. Villamora : bronn and from axes, razor, and model colts from cremation graves. [4d. pl. 89.] E618E 26190 While free armsting graves (id. pl. 90.) 120 puin, brouss and berracetta vessels from exmating graves. (id. pl. 91.1 20101 46 B6192 ware, some with stamped ornament, from cramation graves, (of, pl. 02.) -B0103 vasor, occurries, etc. from recombing green. (id. pl. \$31.) B0173 Belogna : Period Bancoci L., bronze objects from cremation graves. (id. pl. 23.) 39175 fibulas and pottery from cremation graves. (cf. pl. 75.) die" Berta Basser! If : abjects in bronze and terracults from gremation graves. TT (8d. pl. 781)

lxxxv

B6178	fologue: Period Banners II.: stessent mans, dame-abaped kniron, ste. from symmation, graves, (cf. pl. 78.)
B6165	Ashabiti an ana months according from aroundly crayed (id. til \$5.)
B4183	fibrilla from szamafian grassos. (id. pl. 83.)
MARKS.	40 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	2 Golssecca Group (N.W.).
B6143	Golssecca : plane of crementon tombs and pottery sherofrom. (id. pl. id.)
B6144	fibrilar, jewell, sin from cremation graves, (all pl. 34.)
B8145	Castelletto Ticino petter and metalwork from cromution tombs. [id. pl. 45.]
	3. Atestine Group.
40.40	
34150	Period 4. (Bludge and other bronce objects from cromation tends (id. pl. 50.)
B4151	17 A Second Section of the Section and the Section of the Section Courses
B8153	cremation graves (id. jd. 52).
100 m 200	a restrict from a manus them were and 188 V
B6153	the state of the s
36154	from altelan and other others of proper from cremation tomics
30150	(al. pl. 55.)
B0156	the name and transport and improvement work to heater from crountion
This said	tomin ful, til, 56
B6159	pottery (m) and black band, and nall ambled warres from cremation
	bernilm, that ad, 58.)
BA159	Periode III IV. : Shinles and settery from graves and temple. (in. p. 68.)
86140	Opposite and other sizes north of the Por filming and figured north work. (ad. pl. 49.)
	4. Latian Group.
H291#	Alban Hills : puttery from earliest iron ago tomba : Villanova commany. (Bull, Comm.
BEASE	And xxxi. pl. 6.)
B2919	Hut-urn, rough pottery, painted were. Confutbles was sarly himles, from tambs of very
02010	washing dates (inf. til 7.)
B2920	Pottery of the carriest period and later last opparant, telerate landles, etc.), 2 figures of
20000	the god Bes (id. pl. 8.)
	5, Tuscan Group.
B2921	Various periodic; brouge filmfar, iron swends, band nyckbloss, 412. (id. pl. 9.)
B2930	Sum: Cypes of tomb and of measury (Manuscente Anticks, il).
B2927	Language at the complete bear broken, backen, backen, broken trees, [15]
B2926	and the County of the state of the safe form at the county of the safe state of the
B-2955	
B2928	brown vessels and tripods with repussion work. Advanced tren age. (16.)
B2954	Vulei: painted postery: beal mirations of finh-lipownsean and times prometric warms
-	(Gall, pl. k)
B2055	In the same of fluted and theired bacobrees Wooll, pl. 5.1
B6008	Vatulouiz : figured bounts disc (Boll. Pal. II. xavil. pl. 18.)
BOUAL	Orrioto: broats was of Villanovs type. (al. agviil. pl. 251.)

6 S. Italian Group.

20028 Sarne Valley, Campenia: pottery plain (mand types) and painted, from inhumation given (id. xxvii pl. 1.)

ARCHITECTURAL DETAILS.

```
$330 Barcelona, fragment of friene, found in old walling.
Barlo
                    capital of Roman temple
          9.0
B185
       Buth, fragments of cornics with georesque boal.
B18d
              fragment of extrat stone.
15182
              (regiments of cornire
B184
         .. Corinthian capital forming part of attached columns.
BISS
             head of Meduse, onjectical restoration at poliment.
Bink Terragona, fricos in finition marida
B335
            1,6
                                           found 1815.
B336
                   napitale found at-
             48
第354
                   capital from temple of Jugaties.
            143
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SCULPTURE:

MYTHOLOGY IN LATER ART.

B333	Dionysus, Parian marble status of Ameninghus from Empuriss. Rere- sterakles, whice murble status of Barchus. Tarragone Mus. Nike. Athens Nike from Orin. (LES.) 1811 April 1811.	Iona Mm.
	PARTY NAME OF THE PARTY OF THE	

Hellewinie Edich.

B7343 Persons and Andromeds. (Schreiber, Excludiabler, pl. 12.)

ROMAN HISTORICAL RELIEFS.

The Column of Trajan.

This list, enlarged, coarraspel and ours community numbered, replaces that of the original entalogue. States are do andread by quadring either the numbers been given at their in the original colologue, but the amabering here given is to be preferred.

Complete arrive, each alide being other from one place of Cicharles, Penjanomak.

and a street	Mala	Sections	
B1504	Li	1- 4	Blackhouse on the Bands.
B1003	Y	5- 8	Romans on guard, best with make
B1506	W.	9- II.	Francisco como financia de la como de la com
B1507	vill	13-13	Frontier sown, figure of vive god.
B1508	8311	16-18.	Revige of beats crosses by Roman army.
			Lauding of troops on worth bunk
B1509	12:	19- 12	Commit of war, advance of cavalry,
B1510	2.	23- 26.	Lustratio execution, arrival of messonger.
BILLI	41	27- 10.	Alloutio, building of fort
81511	ril	31 - 84.	Billding contained.
81519	200	RG- 88:	It was a second transfer.
E1514	xlx		Passage of river, claring of forest.
		海	Postification of a river-creating
B1015	UF.	43- 40	Bacian prisoner, building of feri
\$1510	TY	47- 500	Caralry equality river.
B1517	270	一家正二 光彩 化	The state of the s
B1519	aville	85 58.	Advance of many through forest.
B1519	ELT	59- 62	
B1500			Baitle acone
	E.3	62- 66.	Darum fornientions, passage of river.
B1521	131	67- 70	Allocatio, Derian contrassy.
			The state of the s

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          Plate.
                            Romana pillaging, saptive princess,
                  71- 78
B1522
           ERII
                  74- 76-
                           Dayalty awnumner, mailed boromen.
B1529
          xxiii.
                  77-79.
                            Duchune arrack Roman fort.
94524
           TRAT
                           Trajan embarks at Drobotas.
B1595
           KKW
                  89- 83.
                            Toy age on Danabe
B1399
           EXXI
                  88- 87.
                  ks- 91,
                            March of simy,
第1597
          LEVII
                            Engagement with mailed horseners.
自1528
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                            Night hattle
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                            Darish eaptives brought in.
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B1533
                            Soldiers remarks), Roman prisoners briaged by Davian aumous
B1584
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Mercilianous election of childer, and of which enhance more their one plane of thehorms, Temperature, The descriptions may be taken from the complete service given where.

JULIA	Photo	Sed Bu	-		Plate.	- HAUELOUL
B5370	va. vil. viil	D-17.		B5222	altitus alaiti	163-179
B5385	vill, ik	18-211		B5353	Li	177-18L
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BOMAN SARCOPHAGI.

B328	Marcia	mroophage	m in charge at Ages.
3031	-64		in Berrolena Was, and yeer.
B332	6.6	4 10	or view of one side.
B355	4.1	970	Haps of Proporpius Tarragona Mus.
B370	11	16-	parties of. Formerly to Tarragona Mus.
B519	4.1	13.	Rape of Prescriber (1). Amaia,

IXXXIX

BYZANTINE SARCOPHAGI, &c.

B535 Succeptingus in church of S. Appolliment in Classes, Revenue, Iront view, peaces & design.
B536 ... end view, peaces & design.
B540 Transcura in classics of S. Appollimers Navro, Revenue, with peacesk and fruit design.

ROMANO-BRITISH SCULPTURE

- B383 Head of Medica from temple of Sci Minerya (Partson County History, Seminari, I. fig. 13). Birth Mas.
- B387 Head of mean guidless (at 1, fig. 20). Hath Mile-
- 2085 Relief of Heronice Bibmx (id. 1, hg. 32)
- 8389 Relief of godiless and wershippers (ad 1, ing. 33). Dath Man
- \$390 Relief of Minerca (id. 1, fig. 34). Buth Mus.
- B392 Curved stone found c 1872 (od 1, dg. 36). Bath Mus
- Rios Colemal head of Fleylan speech, from view (id.), bg. 523. Hath Mus.
- 8906 ... luck view (14, 5, fig. 52).
- Rivi Three-quarter length repainheal rated of a sighten standing in a make, Sound 1700.
- \$100 Fragment of panel representing one of the four seasons, found 1555. Bath Mus.
- \$200 Fragmentary septilehial relief of shandard hourse (1), found a 1802

ROMANO-GERMAN SCULPTURE

- B376 Cm. Musius, unmament of: Mater Mur.
- Bired Vellaunus, ... Benn, Privatumas,
- East Annaius, Biogerbrück, Emerande Une
- 2381 M. Val. Crispus, ... Wiesladen Mus.

ROMAN SCULPTURE IN SPAIN.

- \$307. White muchle modallion from numbrary at Tarragona.
- 2008 Draped female again found 1918 in boths at Tarragona (one example of a Hellomesto, or erritor, tradition with good Roman enkinematic.)
- B301 Deared fornale figure, later la date.
- B343 Torse of goddess (Flore), Tarragous Mus.
- Bins frapel matur of youth wearing bulls. Turregous Mus.

PORTRAITS.

- E340 Aureline, Marcus. Hood in grey markle found in a Roman well at Tatragema.
- B54 Caliguis (1), bronze bust of, base intald with allere, Colchester Mus.
- B349 Hadrian; white murble houl, Turragona.
- Elfi Verus, te. Italian markle head, Tarraguna Mass.
- Bible Salma, with of Madrian (1), status with attributes of Cores (J.R.S. II, pl. xiii).
- BS11 Trajan | Italian markle head, Tarragema.
- 8368 Imperial portrait how! from Italy, Torton Mus-
- B389 // 10 10 10 10
- B367 White marble male portrest head, Mataro Mus-
- 53d8 Idealised famule partials head to white murble, Maloro Mus,

BRONZES.

B102	Heal.	of a goddnes [Minnyra t)	Bàth	Mus.,	full face	where.
B193	130	Tire	100		prodite 1	

TERRACOTTAS.

- Bits Roman figuress from children's graves; animals and races in annual forms. Cabibiante
- Rommi figurines from children's graves : grotssque statuettes. Conchestor him B320

VASES.

- Fragments of Samian wars. Both Wite. Bing
- Smith vass, Jarmin collection, Calchester Mins B29
- B30 Pottery in Joslin collection, Colchester Mus.
- B31 Farmuran, Collaborator Mus-
- Big Child burlat middle first cent. A.D., fould have Colchester, Colchester Mrs.
- B657 Burial group, Colomater Mus.
- Amphore containing buried, Colobiater Mus-B039
- B660 Honey-pot of bull were, Columester Man.
- B317 B27 Late-Collie support from Lexion Park Home. Calchester Man,
 - Augusta Mungya in Colchaster Mus. 15.
 - B25 24

PAINTINGS.

B55%	Pompeil.	part of	wall-painting	in the	Villa 1	them (J. dr. S., Hi, pl.	riii),
B339	11	1881	77	11	49	feet pet des	
2560	117	41/	6.1	11	84	(m h x)	
B531	111	lan.	84	48.6	77	(fel. pl. na).	
2549	19.	19	P	-	10	(id pl xii)	
B563	1.1	110	317	38	77	(al phoxiii).	

MOSAICS.

RECEIPE:	Bal	tesjonn	A HADER	LETIN TO SERVICE STATE OF THE PARTY OF THE P	
B9570	El.	D)em,	maneja.	fram.	Barrio !

- Burparies, messio of Serrific of Iphigonia. Elav
- Catia, meanles of sarlies perlan found lunder street opposite harracks of Visulas (J.E.S. BEST it, bg. 75).
- Ondan, wests from Bards Mor. Bosse
- B2340 Silebouter, mounty compared with meanly at Pompail
- Bibbs Taharka, masse from Burde Star
- B9567
- 2346 Tarragona, mount. Tarragona Mus.
- B551. Tivoti, Hadrian & Villa, mosale in rail of importal.

Dyamillia Monaice

- Ravenna, S. Apoliticare Nuovo, Monaice over arrade of N. Nate Adoration of Maga-B537 250%
- 1010 ## T 88 Virgina,
- BShill 16 S. Nava : Prophote ami Paleco. 86

COINS.

(80 Roman, At. Early enveney. Bibl: Palikanus, 44 s.o. Type showing Rostra.

MINOR ARTS.

#120 firrum haughes, rings, pins, etc. Bath Mas.

Bon Brouge (lagon, Coloruster Mus.

Impressions of gone found in 1805. Bath Mus-BIFF

Poster vessels from dipping will. Bath Mos-B187

B188

Romano-Beltish jenethery and other objects from commercy on North Station Road BRIA Colchester. Calchester Mus-

B35 Bons pinn, Colohestor Wite.

MISCELLANEA.

8558 Group of linkers' moding builtles, Cali linker Max.

B2542 Padiock found at Silvha tor, 1898

Bild 7 Barrelielling found at Silubinater.

B2533 Quere found at Bilched at.

B2527. Tim inget found in Conwall.

Bays Lond pig of Hadrian (Fictions Chursty Hadren, Summerst, 1, fig. 43). Bath Mon.

NOTICE TO CONTRIBUTORS.

The Council of the Hellenic Society having decided that it is desirable for a common system of transliteration of Greek words to be adopted in the Journal of Hellenic Studies, the following scheme has been drawn up by the Acting Editorial Committee in conjunction with the Consultative Editorial Committee, and has received the approval of the Council.

In consideration of the literary traditions of English scholarship, the scheme is of the nature of a compromise and in most cases considerable

latitude of usage is to be allowed.

(1) All Greek proper names should be transliterated into the Larin alphabet according to the practice of educated Romans of the Augustan age. Thus π should be represented by c, the vowels and diphthongs ν, αι οι, ον by μ, αι, οι, αι d ν respectively, final -οι and -ου by -νιν and -νινι, and-ρος by -εν.

But in the case of the diphthong o, it is felt that a is more suitable than a or i, although in names like Lacelicea Alexandria, where they are consecrated by usage, a or i should be preserved, also words ending in -eror must be represented by -erra.

A certain amount of discretion must be allowed in using the o terminations, especially where the Latin usage itself varies or profers the o form as Delos. Similarly Latin usage should be followed as far as possible in se and se terminations, e.g., Prione Sugerna. In some of the more obscure names anding in spot as Asseyou, see should be avoided, as likely to lead to confusion. The Grank form som is to be preferred to so for names like Dion, Hieron, except in a name so common as Apollo, where it would be pedantic.

Names which have acquired a definite English form, such as Carrieth, Athens, should of course not be otherwise represented. It is hardly necessary to point out that forms like Hercules, Mercury, Minerro, should not be used for Hercules, Hermes, and

Athena.

- (2) Although names of the gods should be transliterated in the same way as other proper names names of personifications and epithets such as Niks, Homonoun, Hyukinthiae, should fall under § 4.
- (3) In no case should accents, especially the circumflex, be written over vowels to show quantity.
- (4) In the case of Greek words other than proper names, used as names of personifications or technical terms, the Greek form should be transliterated letter for letter, k being used for κ, ch for χ, but y and v being substituted for ν and σν, which are misleading in English, e.g., Nike, apoxyomenos, dindumenos, rhyten.
 - This rule should not be rigidly enforced in the case of Greek words in common English use, such as acque, symposium. It is also necessary to preserve the use of ou for ou in a certain number of words in which it has become almost universal, such as boule, gerousio.
- (5) The Acting Editorial Committee are authorised to correct all MSS and proofs in accordance with this scheme, except in the case of a special protest from a contributor. All contributors, therefore, who object on principle to the system approved by the Council, are requested in inform the Editors of the fact when forwarding contributions to the Journal.

In addition to the above system of transliteration, contributors to the Journal of Hellevic Studies are requested so far as possible to adhere to the following conventions:—

Quotations from Ancient and Modern Authorities.

Names of authors should not be underlined; titles of books, articles, periodicals or other collective publications should be underlined (for italies). If the title of an article is quoted as well as the publication in which it is contained, the latter should be bracketed. Thus:

Six, Jahrb, xviii, 1903, p. 34.

or-

Six, Protogenes (Jahob. xviii, 1903), p. 34.

but as a rule the shorter form of citation is to be preferred.

The number of the edition, when necessary, should be indicated by a small figure above the line; e.g. Dittenb. Syll. 123.

Titles of Periodical and Collective Publications.

The following abbreviations are suggested, as already in more or less general use. In other cases, no abbreviation which is not readily identified should be employed.

```
d. E.M. = Archaelegisch-epigraphische Mitteilungen.
dem d.L. = Annali dell' Instituto:
desk. det = Archaelegischer Answiger (Beiblatt zum Jahrbuch).
deck. Zeit. = Archaelegischer Zeitung.
  4th. Mitt. = Mitteilungen des Demerhen Arch. Inst., Athemsche Abteilung.
  Baumeister - Baumeister, Denkmäler des klassischen Altertums.
 13.C.H. = Balletin du Correspondance Hellenique.

14. A. Broncie = British Massam Catalogue of Bronzes.
  B,M,\ell,= British Museum Catalogue of Greek Colms.

B,M, Inser, = Greek Inscriptions in the British Museum.
  H.M. Sculpt - British Museum Catalogue of Sculpture.
H.M. Terrocotton - British Museum Catalogue of Terrocotton.

    B.M. Voses - British Museum Catalogue of Vases, 1893, etc.
    B.S.A. - Annual of the British School at Athens.

 B.S.R. = Papers of the British School at Romes.
Bull. d. I. = Bullettino dell' Instituto.
Busolt = Busolt, Grischische Geschichte.
 CI.G. = Corpus Inscriptionnin Graecarum.
 C.L.L = Corpus Inscriptionum Latinurum
 Ci Rev - Classical Review.
 C.R. Acad, Proc. -Complex rondus de l'Academio des Inserrpcions.
 C.B. St. Pit - Compte rendu de la Commission de St. Pétersbourg.
 Dar Sagl. - Daremberg Saglio, Dictionnaire des Antiquités.
 Dittemb. (t,t), I = Dittemberger, Orientis Gracei Inscriptiones Selectae.
Dittemb(S_0 H) = Dittemberger, Sylloge Inscriptionum Gracearum.
"Еф. 'Арх. — Ефираций 'Архиолоумф. G.D.L — Collitz. Samulang der Griechnschun Dialekt-Inschriften.
Gorh, A.F.=Gorhard, Americana Vasenbilder.
G.H.A. ~ Gottingische Gelehrts Annagen.
Hand, H.N. - Head, Rietoria Numbrum.
I. G. - Incriptiones Grasens
I.G. A. = Rohl, Inscriptiones Graceae Antiquissione,
Julyb. - Jahrbuch des Dautsahen Archaelogischen Instituts,
Jahresh, - Jahroshefis das Oesterruichischen Archaalogischen Institutes
J. H.S. - Journal of Hellonic Studies
Allo Klio Beitrage zur alten Geschichte).
Le Bas Wadd. - Le Bas Waddington, Voyage Archeologopus
Michel - Michel, Roenell d'Inscriptions procques
Mos. d. I. - Monumenti dell'Instituto
Müller-Wies - Miller Wieseler, Denkmiler der alten Kunst
Mus. Marbles = Collection of Ancient Marbles in the British Museum.
Neue Johrb. M. All. - Neue Jahrbiicher für dan klamische Alterrom.
Neue Johrb. Phil. - Neue Jahrbiicher für Philologie
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^{*} The attention of contributions is called to the fact that the littles of the volumes of the second lasts of the Corpus of Grouk Intersprimer, published by the Prussian Amderny have now been ulunged as follows:-

^{1. -} Inser. Attions anno Excites vetral forms 1.0.

II = a soluth quas at later Ench nun, or August's tempoun 28

LIL: estatic Romanan 12 16

^{18 =} Argolidia

VIL = LX. 330

Acgorida er Bissoria.

Megarida er Bissoria.

Ginacias Saptentrionalis.

insul. Maris Acgori provier Delam.

Stelling. XIII = DOM:

Niese = Niese, Geschichte der grüschischen n. makodonischen Staaten.

Num. (Mr. = Numismatic Chromicle, Num. Zell, = Numismatische Zeitschrift.

Pauly-Wissown-Pauly-Wissown, Real-Encyclopiatic der classischen Altertimawisson-

Philologue.

Pauloi. =Pinfologue.

Ramsay, C.B. = Remocy, Citias and Bishoprica of Phrygia.

Ramsay, Hist. Geog. = Ramsay, Historical Geography of Acia Minor.

Refunch, Rep. Scatpt. = S. Reimach, Repertoire des Sculptures.

Reimach, Rep. Varsa = S. Reimach, Reportoire des Vasas points.

Rec. Jurk. = Revne Archoplogique.

Rec. Et. Gr. - Revue des Etades Gresques, Rec. Num. - Revue Namennatique. Rec. Philot. - Revue de Philologie. Rh. Mes. - Rheinbolies Musann.

Reso, Mdt = Mitteilungen des Deutschen Archaologischen Institutz, Römische Abteilung.

Roscher - Roscher, Lexicon der Mythologie.

S.M.C. - Sparts Museum Catalogue T.A.M. - Timbi Asjan Museus.

Z. f. N.= Zeitschrift für Numismatik

Transliteration of Inscriptions.

[] Square brackets to indicate additions, i.e. a lacum filled by conjecture.

() Curved brackets to indicate alterations, i.e. (1) the resolution of an abbreviation or symbol; (2) letters misrepresented by the engraver; (3) latters wrongly omitted by the engraver, (4) mistakes of the copyist.

< > Angular brackets to indicate omissions, i.e. to enclose superfluous

letters appearing in the original

. . . Dots to represent an unfilled facuna when the exact number of missing letters is known.

- - Dashes for the same purpose, when the number of missing letters is not known.

Uncertain letters should have dots under them.

Where the original has ion adscript it should be reproduced in that form; otherwise it abould be supplied as subscript

The espirate, if it appears in the original, should be represented by a special sign. 1.

Qualitions from MSS and Literary Tests.

The same conventions should be employed for this purpose as for insemptions, with the following impurious receptions :-

() Curved brackets to indicate only the resolution of an abbreviation or symbol

II Double square brackets to enclose superfluous letters appearing on the original,

< > Angular brackets to enclose letters supplying an omission in the original.

The Editors desire to impress upon contributors the necessity of clearly and accurately indicating accents and breathings, as the neglect of this precaution adds very considerably to the cost of production of the Journal.

PRENTER IN CREAT INSTAIN BY BIGHARD CLAY AND SONS, LIGHTED, BRUNSWICK STREET, STANSOND STREET, A.S., AND DUNDAY, STREET, A.S.,

INSCRIPTIONS FROM LYCIA.

The following inscriptions were copied on a journey made in April and May, 1911, in Lycia. We were accompanied throughout by Mr. Nikola Michael Ferteklis of Adaha, to whom our best thanks are due. We have also to acknowledge assistance from Mr. Tod and Mr. Woodward in the publication of the texts, and from Mr. Arkwright in the interpretation of the Lycian fragment from the Fellendagh (No. 29), and with certain of the names. Our other obligations are noted in their place. An accident to one of our horses, while we were crossing the Xanthus marshes on the way to Patam, chanaged a great part of our squeeze paper and we have had in a number of cases to rely only on our copies. It has seemed better therefore to state the cases where we had an impression, and where we had only a copy on which to rely.

 Makri (Telmessos). In the house of Mr. Louisides. Above the inscription is a rude relief of a horseman ciding to the left. Letters 012. Copy.

DEWKAKACI WATION

Θεώ Κακασ[β]ώ 'Απολλώνιος εὐχήν.

A similar relief and dedication to Kakashos is figured by Petersen from Levisi, a second also is known at Rhodes. For the god Kakashos see Drexler in Roscher, s.e. and Arch. Ep. Mitt. xiii, p. 124. Mr. Hill connects the divinity with the θeix σώξων. A similar relief published by van Buren from Makri is explained as the representation of the heroized dead. On the subject of this identification of the dead man with the divine nature, see further Ramsay, C.B. i. 100, and J.H.S. 1884, p. 261.

2. Ib. Below a similar relief, Letters '015. Copy.

MONIAHE & O IAOY

Μονίδης [M]s[v]ίδου «]ὐχήν.

[!] Holsen to Lytine, it. p. 3. Fig. 2, No. 7.

V Locsy, drek, Ep. Mitt. vil. p. 124.

² J.H.S. av. p. 129. In U.S. I. p. 305 the H.S.—VOL. XXXIV.

names Miyer and Karlar Bile occur as pricet and primites of Demeter and Salaries.

⁴ J.H.S. xxyiii, p. 18), Fig. L.

Broken block built into a wall behind the Tekke. H. 26, B. 725.
 Letters on, '02. Copy.

ΥΑΣΑΤΟΗΡωσΝΕΜΑΥΤω ΥΤΜΡΟΔΙΝΗΝΤΗΝΗΛΕΥΘΕΡωΜΕ ΝΕΥΦΡΟΟΥΝΗΝΕΥΤΥΧΕΟΥΟΤΟΥΕΛΠΙΟΔ ΚΕΚ ΙΑΥΔΙΑΝΓΟΡΓΙΔΑΤΗ

5 EAWINPOAINHET PWAE YAENIEZONEC PWTATWTAMEIW*OWNOEAENZACTO

The stone is broken at both ends so that a complete restoration is impossible. The name Pobling occurs in a Christian inscription, C.I.G. 9484, cf. Poblia (also a liberta) in Thessaly (I.G. ix. 2, 1042, l. 48) and Becktel-Fick, Gr. Personennamen, p. 248. In line 5 the final ϵ of Poblings has been omitted by the stone-cutter before the following ϵ .

4. Ib. Square statue-base in the bank of a water-channel, thirty minutes from the bridge at Makri on the road to Dont. The base lies on its side, the lower edge being submerged. H. 86. Letters 05. Copy.

Flavins Attalus is presumably a stranger to whom the right of holding property in a foreign town has been granted. Of Dittenberger, O.G.I. 81, einen & autors correletar kai doubler kai doubler. . . . kai entiform you said doubler.

For the spalling descripted see Kalinka, Eranes Vindobouensis (1893), p. 86, a. 1, and Moisterhans-Schwyzer, Grammatik der Att. Inschr. p. 140, note 1216.

^{5.} Pinsea. Round base built upside down into a building of Roman date to the S. E. of the acropolis; only a part of the inscription was visible. Finely cut letters, 175. Copy.

ΔΙΚΑΙΟΣΥΝΗΣΚΑΙΤΥΧΗΣ ΛΣΟΝΟΣΤΟΥΙΑΣΟΝΟΣ ΤΟΥΓΊΓΡΕΟΥΣ ΚΑΙΤΟΙΕΡΟΝΤΟΥΑΓΙΟΛΛΩΝΟΣ Ν ΑΓΑΛΜΑΤΑΑΝΑΤΕΘΕΙΚΟΤΟΣ

Τπέρ τῆς] δικαιοσύνης καὶ τύχης
'Ιά]σονος τοῦ 'Ιάσονος
τοῦ Πυγρέους
- καὶ τὸ ἰερον τοῦ 'Απόλλωνος
δ Ν [καὶ] ἀγάλματα ἀνατεθεικότος.

The last line is probably to be restored: καὶ τὰ ἐ[ν[τος] ἀγάλματα, or possibly και ξόανο]ν [και] ἀγάλματα ἀνατεθεικότος. Ci. Sterrett, Wolfe Expedition, No. 422, τὸν ναὸν ἐκ [θεμελίων] σὺν τῷ ξοάνω και τοῦς ἀγάλμασι ἐκ τῶν ἰδίων ἀνέθηκε (at Kara Baulo). The restorations suggested would make the last line exceed the first in length on the left eide, which was probably the case with the two last lines, which are both longer on the right.

Kestep, a village 11 hrs. from Minara on the road to Sidyma.
 Small square base. H. 25; B. 14. Letters 015. Copy.

5

Λάλλα Φίλων ος Φίλων α α τὸν [έαυτής πατέρα ηρωα.

 Sidyma. Small square base. Above the inscription is the figure of a boy, of poor work; on one side of the stone is carved a pair of hands. H. 75; B. 27. Letters 02. Copy.

XPYCHMOCZW
CIMOYAIEOPO
NIMONTON
FAYKYTATON
YIONMNEIAE
XAPINHPWA

Χρύσυππος Ζωσίμου δίς Φρόνιμον τόν γλυκύτατος νίον μυτίας χάριν ήρωα.

For the hands carved on the aids of the base see Woodward, R.S.A. xviii. p. 155, and the references there given.

 Ib. Large square base with top broken. H. 1-23, B. 64. Letters 045 (last line 06). Copy.

ETT AFAGO
AY MEYSEA
KA IFYNAIKIAYTOY
AP SASEI!!!!!!/FI!!!/KAI
5 MI @KAAAIMIIAOY
KAI TEKNOISETIA
FA OO KAIAFAOF
TYXHTHKAIAPSA
SE IETTAFAGOY
10 HP@SIN

Έπάγαθ[ος β΄ Σεδυμεθε ἐα[υτῷ
καὶ γυναικὶ αὐτοῦ
'Αρσάσει [τῆ] καὶ
Μίφ Καλλιμ[ή]δου
και τέκτοις Έπαγάθφ [γ'] καὶ 'Αγαθ[ῆ
Τύχη τῆ καὶ 'Αρσάσει 'Επαγάθου
ῆρωσιν.

Near the left-hand edge of the stone a crack runs the whole length, which obviously existed before the stone was engraved. In line 4 the most probable restoration is that suggested above, cf. C.I.G. 4264, and below, No. 10. In that case it is necessary to suppose that there was a flaw in the stone on either side of the letters TH.

In t 7 we should probably resul $E\pi a \gamma d\theta \psi$ [γ], to fill the space. Cf. C.I.G. 4264, $E\pi a \gamma d\theta \psi$ τplc . The persons mentioned are discussed below, under No. 10.

Close to the village of Bel, which lies a little more than an hour to the S.W. of Sidyma, are the remains of a small site at the head of a ravine which opens on to the sea to the W. of the mediaeval ruins marked in Kiepert's map. There are a lies worked blocks in the village cemetery, and ten minutes to the S.E. of the village are the remains of ancient buildings with two rock-tombs near by. There was probably a small village site here in antiquity within the territory of Sidyma. The three following inscriptions are all from the site.

 Bel. On a small Lycian rock-tomb. The inscription is engraved below the round beam ends. Latters 02. Copy and impression.

MAMIONAABOYKAIAPIZTOTEAHΣΔΑΙΔΑΛΟΥΣΙΔΥΜΕΙΣΚΑΤΕΣΚΕΥΑΣΑΝ ΤΟΜΝΗΜΕΙΟΝΆΑ ΤΩΠΑΤΡΙΚΑΙΠΕΝΘΕΡΩΚΑΙΝΑΝΝΗΤΗΜΑΜΙΟΥ ΜΗΤΡΥΙΑΚΑΙΤΟΣΕΞΗΜΩΝΓΕΓΕΝΗΜΕΝΟΙΣΑΛΛΩΔΕΜΗΔΕΝΙ ΕΞ ΑΙΤΓΓ ΝΑΙΕΙΔΕΜΗΟΦΕΙΛΗΣΙΙΕΡΑΣΑΡΤΕΜΙΔΙΣΙΔΥΜΙΚΗ ΔΡΑΧΜΑΣΤΡΣΧΕΙΛΙΑΣ

Μάμιου Λάβου και 'Αριστοτέλης Δαιδάλου Σιδυμείς κατεσκεύασαν το μνημέτου Λό[βα] τῷ πατρί και πενθέρω και Νάννη τῆ Μαμίου μητρυία και το[ῖτ] ἐξ ἡμῶν γεγενημένοις: ἄλλω δὲ μηδενὶ ἐξ [ἐσται τεθῆν]αι· εἰ δὲ μή, ὁφειλήσι ἰερὰς 'Αρτέμιδι Σιδυμικῆ δραχμάς τρ[ισ]χειλίας.

The inscription is of considerably later date than the tomb itself. For consumptions of Imperial date see Treuber, Wesen, Ursprung . . . der auf griech, Inschr. Lykiens angeordneten Grabbussen (G. Pr. Tübingen), p. 18.

Mamion, daughter of Labas, is the wife of Aristoteles, and stepdanghter

of Name. For the name Majury cf. J.H.S. vi. 354.

10. Rb. On a panel cut on the face of a rock. Above is a rude relief of four figures. The panel measures: H. 45, B. 61. Letters 025. Copy and impression.

> ΕΠΑΓΑΘΟΣΒΟΤΟΝΠΥΡΓΟΝ ΕΚΘΕΜΕΛΙΩΝΚΑΤΑΣΚΕΥΑΣΑΣ ΛΑΒΩΝΤΟΧΩΡΙΟΝΔΙΑΓΕΝΟΥΣ ΕΑΥΤΩΚΑΙΓΥΝΑΙΚΙΑΥΤΟΥΑΡΣΑ

- 5 SEITHKAIMI@KAAA MHAOYKAIT@
 FENOMEN@YI@ETAFAO@KAIOYFATPI
 AFAGHTYXHBOYAOMAIKAGETOSGYES
 GAIFI EINAAEKTOPAKAIOPNEIGATEAEA
 KAIKAAF AMAT@MEAAEINSYNAIPEIN
- 10 ΤΑΓΕΝΗΜΑΤΑΟΜΟΙΩΣ ΑΛΙΝΑΜΑΤΩ
 ΜΕΛΛΕΙΝΤΎΓΑΝΤΑΑΥΤΑΘΥΜΑΤΑ
 ΚΑΙΕΣΤΑΙΤΩΘΥΟΝΤΙΕΠΙΔΗΛΑΚΑΙΕΠΙ
 ΚΕΡΔΗΕΑΝΔΕΤΙΣΠΑΡΕΝΘΥΜΗΘΕΙΣ
 ΜΗΘΥΣΗΕΣΤΑΙΑΥΤΩΕΠΙΒΛΑΒΗΚΑΙ
- 15 ΕΑΝΔΕΤΙΣ -- Ε ΣΟΦ ---- ΣΗ

Έπάγαθος β΄ ὁ τὸν πύργον ἐκ θεμελίων κατασκευάσας, λαβών τὸ χωρίον διὰ γένους, ἐαυτῷ καὶ γυναικὶ αὐτοῦ 'Αρσά-

- 5 σει τἢ καὶ Μίο Καλλ[ι]μήδαν καὶ τῷ
 γενομένω νίῷ "Επαγάθω καὶ θυγατρὶ
 "Αγαθἢ Τύχη, βούλομαι καθ' ἔτος θύεσθαι [ἡμ]εῖν ἀλέκτορα καὶ ὅρνειθα τελέα[ν
 καὶ καλ[ἡν] ἄμα τῷ μέλλειν συναίρειν
- 10 τὰ γενήμαται ὑμοίως [π]//λιτ ἄμα τῷ μέλλειν τ[ρ]ογᾶν, τὰ αὐτὰ θύματα. Καὶ ἔσταὶ τῷ θύοντι ἐπίδηλα καὶ ἐπικερδῆ. ἐὰν δέ τις παρευθυμηθείς μὴ θύση, ἔσται αὐτῷ ἐπιβλαβῆ, καὶ

15 day be the [et]e[po]e ach[eiln] on (?)

There seemed to be another line below that beginning car be tre - - -

outside the panel, but it was almost completely obliterated

In I. I wipyon probably refers to a tomb, of the use of wurylaway, C.I.G. 4207, add. 4212, 4213; add. 4220 b, add. 4340 c. In C.I.G. 4341, the revised reading suggested (add. p. 1159) is:

 $\tau |\dot{\phi}|_{F} = |\dot{\psi}|_{DY} |\dot{\phi}|_{F} |\dot{\phi}|_{F} = |\dot{\phi}|_{F} + |\dot{\phi$

If a whayor can bear this souse of 'tomb,' it may here refer to a large rock-tomb a little higher up the hill at the foot of which the inscription stands. The tomb is manscribed, but on the threshold is carved a large phallos.

In l. 8 [nu] er seems to be required by the sense and what remains of the first two letters. For the spelling here and in Specific of Meisterhaus,

on cit's pp. 48 seqq.

In Il. 8 and 0 the restoration relicated all sal salford was considered doubtful by Dr. Farnell, who suggests sal calpal, i.e. baskets containing cereals. The impression however certainly supports our original reading KAAF///, there being space for another letter after the remains of the H and before the A. Dr Farnell's reason for doubting and he is the general avoidance of picturesque epithets in formal inscriptions of this nature: of however Leges Gr. Sacr. i. No. 4, 1. 6 κριός καλλιστεύων λευκός ένδργης. L 12 θες δύο καλλιστεύουσαι, l. 27 χίμαρος καλλιστεύων, l. 19 έπιμελέσθων δε των ιερών όπως καλά ήν άρχοντες και ιερείς. The phrasa δρυειθα τελίαν καὶ καλήν bears therefore a significance like κριός καλλιστεύων λευκός eropyne.

L. 10 và yewinara is used in Polyb. i. 71, 1 of the fruits of the earth. The phrase aveainers va verguara will then refer to the gathering of the

harvest, when the first sacrifice is to take place.

L. 11. Our copy had TOYFAN, from which Mr. Tod had conjectured ripleyor: a reading which is supported by the unpression; on which the half-circle of a P is alone visible. The second sacrifico therefore is to be made at the beginning of the vintage

For the cook offered to the dead of the reliefs on the Harpy Tomb and an archaic relief from Sparta (Ath. Mitt. ii Ft. 20). As being the offering made to the obthonian powers, it was furbidden to the wystar at Eleusis (Of Porphyr, De abstinent 4, 16, p. 255, 5 N. Schol, Lucian, Rhein. Mus, xxv. 558, 26. See Rohde, Psycho, p. 221.

This Epagathes (II) is clearly identical with the Epagathes (II) of No. 8 and of C.I.G. 4264, 4265, all from Sidyma. In No. 8 the names are in agreement with these of the present inscription." In C.I.G. 4264 however the wife is called Apore if was Mior Kakksundon; the daughter also Apore if zal

We now this reference to Me. Tod, whom, " Ma Ilm tours "Ayout Toxy of C. L.G. 6524 topother with Hr. Parnell, we have to thank for (42 Rome), J.H.S. 1v. p. 114, No. 80. assistance with this inveription,

'Ayaθη Τύχη. We hear also of his mother called Μαλαβαθρίρη, and of

grandchildren Επάγαθος ὁ καὶ Δείος and Επάγαθος.

The founder of the family may perhaps have been one Epagathes, a doctor and accensus of Claudius, who built the stea at Sidyma. This however is no more than a possibility, since the name Epagathes seems to have been not an uncommon one at Sidyma. We hear for example of Epaphrodeites and Zosimo, children of Epagathes (C.L.G. 4264), who may or may not have been great-grandehildren of Epagathes (II). Again the $'E\pi a'$ yallos 'a' sai $\Delta \epsilon i o \in No.$ 11 (q,v_i) is probably to be distinguished from the grandson of $'E\pi a' yallos \beta'$, also called $'E\pi a' yallos o'$ sai $\Delta \epsilon i o \in (C.L.G. 4246)$.

 It Broken limestone black among the ruins of a small building of squared blocks. Letters 025. Copy.

EIZOKATEGETOYIONAEI ONKAIGYFATEPAKOZMIAN EIGYZIANAEEIGYZIN EIBOYAHODINENAYTOTE

- 5 ΘΗΝΑΙΤΑΓΛΥΚΥΤΑΤΑΤΕΚΝΑ ΜΟΥΔΙΟΔ ΈΡΟ ΣΜΕΤΑΤΗΣ ΓΥΝΑΙΚΟΣΑΥΤΟΥΤΛΗΠΌΛΕΜ ΟΣΛΕΟΝΤΟΣΚΑΙΘΕΚΓΟΝΟΣ ΜΟΥΛΕΩΝΔΙΟΔΩΡΟΥΚΑΙΠΑΓ
- 10 ΠΟΣΜΕΤΑΤΗΣΓΥΝΑΙΚΟΣΑΡ ΣΑΣΙΔΟΣΛΕΟΝΤΟΣΚΑΙΘΕΚΓΟ ΝΟΣΜΟΥΛΕΏΝΠΑΠΠΟΥΚΑΙ Ε Α ΟΣΜΕΤΑΤΗΣΓΥΝΑΙΚΟΣ ΝΑΝΝΗΣΠΟΛΥΚΑΡΠΟΥΚΑΙ
- 15 ΟΕΚΓΟΝΟΣΜΟΥΕΠΑΓΑΘΟΣ ΟΚΑΙΔΕΙΟΣΚΑΙΗΘΥΓΑΤΗ ΜΟΥΜΕΛΠΟΜΕΝΗΚΑΙΤ/ ΤΕΚΝΑΤΟΥΠΡΟΙ ΟΝΕΣΤ ΤΟΥΥΙΟΥΔΕΙΟ_ΤΡΙ
- 20 KAIMEATTOMENHETEPS OYAENIETONESTAIGA YAITINAHATTOTEISAITS SIAYMESINAHMSX...Y EIMENOS...TSTHEA
- 28 BEIAENOMEOAET

είσω κατέθετο υίου Δείот кај вичатера Коориат. l'Euroian de Coucu. εί βουληθώσει, ἐν αὐτῷ τέθήναι τα γλυκύτατα τέκρα μου Διόδωρος μετά της γεναικός αύτοῦ Τληπολεμίι). or Acouros nai d expands μου Λέων Διοδώρου, και Πάζεπος μετά της γυναικός 'Αρσώσιδος Λέυντος και δ έκγο νός μου Λέων Πάππου, καὶ Επάγ αθος μετά της γυναικός Νάμης Πολυκάρπου καί ο έκγονος μου Επιίγαθος i sal Deioc, sal & fluyarup μου Μελπομένη, και τία τέκνα του προίη Ιονεστία-TOUR! WIOR, DERO[8] THIS και Μελπομένης έτερω be obben efor foras bu-क्षा राज्य में विचलतंत्रका (viv) रहे Σιδυμέων δήμω δηνάρια ... ή πor regions for two the lune-Beias vous, o [8] [Exer-(E) as Lymper as - - -

In L 1 the Ω of elow is very faint and may well have been O. The sense in either case is hardly affected, els \$ having for antecedent το μυημείου or

τὸ ἡρῶον in the few lines missing above; εἶσω = ἔσω.

In l. 7 we read Τληπολέμι/ος as the genitive of a feminine name Τληπόλεμις. For the form of Στασιθέμιος in No. 24. A woman's name is required. Each son of the builder of the temb is mentioned together with his wife, her father's name and their son. Diodores and Pappos married sisters daughters of Leon, and each named his son after his father-in-law.

In I. 13 $'E\pi\dot{a}\gamma]a[\theta]os$ is a certain restoration, his son being called $'E\pi\dot{a}\gamma a\theta os$ \dot{o} κal $\Delta e ios$ in I. 15. This mention of an $'E\pi\dot{a}\gamma a\theta os$ \dot{o} κal $\Delta e ios$ makes it possible that he is identical with the $'E\pi\dot{a}\gamma a\theta os$ \dot{o} κal $\Delta e ios$ of C.L.G. 4264, the grandson of $'E\pi\dot{a}\gamma a\theta os$ (II), and that here we have to do with another inscription creeted by this same $'E\pi\dot{a}\gamma a\theta os$ (II). In no other inscription, however, erected by him, do we hear of these children, and moreover the daughter $'A\gamma a\theta h$ $'T\dot{\nu}\chi\eta$ is here omitted.

In l. 18 προ[γ]οιεστ[ά]του seems on the whole the most probable restoration; πρόγουσς=privignus, and the superlative may possibly be used

in the sense of 'eldest stepson.'

The last three lines of the inscription are very faint and worn. For the formula of C.I.G. 4266, ὑπεὐ βυνος τῷ τῆς ἀσεβείας νόμφ, Reisen, i. p. 80, No. 62, ὑποκείσεται τῷ τῆς τυμβωρυχίας νόμφ. Cf. Arkwright, J.H.S. xxxi, p. 269, note 4.

12. This Small limestone fragment in the yard of a house in the lower village of Daver. Letters 085. Copy.

ΣΑΒΕΙΝΗ ΣΕΒΑΣΤΗ ΝΕΑΙΡΑ ΟΥΕΙΛΙΑΠΡΟΚΑ 5 ΧΙΚΛΑΥΔΙΟΣ ΟΥΙΑΝΟΤ Σαβείνη Σεβαστή Νέα ["Η]ρα Ού]ειλία Πρόκλ[α κα]! Κλαύδιος Φλα]ουανός.

Sabina Sebaste is the wife of Hadrian (cf. Dittenberger, O.G.I. 681). For a similar dedication to her at Patara where she is also called véa "H ρa , see J.H.S. x. p. 78. No. 30 (=Cagnat, I.G. ad Res Rom, pert. iii. No. 663). In the present case the H and P must have been written in a ligature. In G.I.G. 1073, Sabina is called véa $\Delta \eta \mu \dot{\eta} \tau \eta \rho$ at Megara, and ib. 435, $vea \tau \dot{\nu} \rho a$ $\theta \dot{\nu} \dot{\nu} \dot{\nu}$ near Eleusis (see Boeckh's note ad loc.). The empress Julia is also called $v\acute{e}a$ "H $\rho a, \dot{\nu}$ and Nero styles himself $v\acute{e}o$; "H $\lambda \iota o c.$ "

Oύειλία Κο. Ούειλίου Τιτιανού θυγώτηρ Πρόκλα Παταρίς (C.I.G. 4283 = Cagnat, op. cit. iii. 664) in the year 147 a.m. dedicated the proseasminm of the theatre at Patara built by her father. Another dedication at Patara

^{*} Rammy, U.U. I. p. 229; cf. also p. 51

* R.C.R. zii, p. 514, I. 34; cf. Lamkoromski, (Inscription at Sagalassos)

(J.H.S. x. p. 79, No. 31 = Cagnat, op. cit. iii. 665) is made by Claudia Velia Procula to Fanatina, wife of Marcus Aurelius, and by Tiberius Claudius Flavianus Titianus to Marcus Aurelius and to Lucius Verus. That Quintus Velius Titianus and Tiberius Claudius Flavianus Titianus are identical appears at first sight probable from an inscription of Patara published by Kalinka (Evanos Vindoboneusis, p. 90, n. 2 = Cagnat, op. cit. iii. 667), where a dedication is made by Velia Procula to her father, whose full name is given as Ti. Claudius Flavianus Titianus Quintus Vilius Proculus Lucius Marcus Celer Marcus Calpurnius Longus, where in the list of magistracies held by him is mentioned the proconsulship of Cyprus (cf. Pros. Imp. Rom. i. p. 372, 696; iii. p. 434, 436). On the other hand Quintus Velius Titianus of Patara, according to an inscription of Cadyanda (B.C.H. x. p. 48, No. 8, Cagnat, op. cit. iii. 513, Dittenberger, O.G.I. 563) does not seem to have held the higher imperial offices. Dittenberger accordingly thinks that the two are to be distinguished.

The Claudins Flavianus of the present inscription will therefore be the proconsul of Cyprus, and his daughter Claudia Vella Procu a (cf. J.H.S.

loc cit).

Velia Procula daughter of Quintus Velius Titianus seems to have been married, according to an inscription of Thes (C.I.G. 4248, Cagnat, op. cit. iii. 567) to one Εὐτύχεος ον Εὐτύχιος, but the reading is not altogether certain.

 Ib. Built into wall of a house close to the guest-house of the upper village of Düver. H. 28, B. 26. Letter 015. Copy.

ΛΕΟΝΤΙΣΚΟΣΠΤΟΛΕ
ΜΑΙΟΥΕΠΙΤΩΥΙΩΑΝΔΡΕ
ΒΙΩΚΑΙΤΕΙΤΑΝΙΣΛΕΟΝ
ΤΙΣΚΟΥΕΠΙΤΩΑΔΕΛΦΩ
ΚΑΙΑΝΔΡΙΑΝΔΡΟΒΙΩ
ΤΑΙΛΕΟΝΤΙΣΚΟΣΕΠ
ΤΩΠΑΤΡΙ ΜΝΗΜΗΣ
ΝΕΚΕΝΗΡΣ Ι ΘΥΣΕΙΔΓ
ΤΗΤΩΡΤΗΣΟ ΚΙΑΣ

10 ΤΕΝΙΑΥΤΟΝΕΝΤΗΙΒ ΥΞΑΝΔΙΚΟΥΕΡΙΦΟΝ ΙΣΤΙΕΑΝΔΕΜΗΘΥΣΕΙ 1ΑΡΤΩΛΟΣΕΣΤΩ ΘΕΟΙΣΚΑΙΗΡΩΣΙ Λεοντίσκος Πτολεμαίου ἐπὶ τῷ υἰῷ 'Λυὰρ[υβἰῷ καὶ Τειτανὶς Λεοντ]ίσκου ἐπὶ τῷ ἀδελφῷ
καὶ ἀνδρὶ 'Ανδροβἰᾳ
κ]αὶ Λεοντίσκος ἐπ[ὶ
τῷ πατρὶ μεήμης
ἔ]ιεκει ἤρ[ω]ι . Θύσει δ[ὶ
ὁ κ]τήτωρ τῆς ο[ί]κίας
κα]τ ἐνιαντὰν ἐν τῆ τβ΄
το]ῦ Ξανδικοῦ ἔριφον
δ[μ(ε)τ[ῆ], ἐὰν δὲ μὴ θύσει
ἀμ]αρτωλός ἔστω
θεοῖς καὶ ῆρωσι.

Teitanis, daughter of Leontiskos, is the wife and (presumably) half-sister of Androbios, in whose memory the inscription is engraved.

In line 12 the reading $\delta[\hat{u}(\epsilon)\tau[\hat{\eta}]]$ was suggested by Mr. Tod.

10

It. In a field to the N.E. of the acropolis. On a panel, measuring.
 H. 30, B. 37, broken at the lower edge. Letters 03. The two letters above the panel 04. Copy.

ZH

MOYTA ΘΕΥΣΤΟΗΡΘΟΝΚΑΤΕΣΚΕΥΑΣΕΝ
ΕΑΥΤΟΚΑΙΓΥΝΑΙΚΙΑΥΤΟΥΛΑΛΛΑΕΡΜΑ
ΚΟΤΟΥΚΑΙΤΕΚΝΟΙΣΕΑΥΤΩΝΚΑΙΕΚΓΟΝΟΙΣ
ΚΑΙΟΙΣΑΝΑΥΤΟΣΕΓΘΣΥΝΧΩΡΗΣΘΕΤΕΡΘ
ΔΕΟΥΔΕΝΙΕΞΕΣΤΑΙΣΥΝΧΩΡΗΣΑΙΗΟΦΕΙ
**ΓΣΟΥΣΙΝΟΤΕΣΥΝΧΩΡΗΣΑΣΚΑΙΟΘΑ ΤΑΣ

Zi

Λεύκιος 'Απολλωνίου β΄ τοῦ Διοτείμου Τλωεύς τὸ ῆρῶου κατεσκεύασεν
ἐαυτῷ καὶ γιναικὶ αὐτοῦ Λάλλα 'Ερμάὅ κότου καὶ τἐκυνις ἐαυτῶν καὶ ἐκγὸνοις
καὶ οἰς ἄν αὐτὸς ἐγὰ συνχωρῆσω- ἐτέρῳ
δὲ οὐδεοὶ ἐξέσται συνχωρῆσαι, ἡ ὑφειλέ]σαυσιν ὅ τ[ε] συνχωρῆσαι καὶ ὁ θάψας

L. 1. Z²₀. of C.I.G. 4245, 4246 (both at The), and Remach, Traite of Epigr. p. 427.

L. 4. For the name 'Equacoras of C.I.G. 4255, 4278, Reisen, in 102.

Ib. Large square base, the top broken: limestone. Letters 025.
 Copy.

n

ACTIANAO HNACAAPIANEIA ACEZAPTOYCACTIL

- TEPFA MONTPAIANEIA B
- 10 EDECONDAYMINA EDECON B
 AHA EDECONAPTEMEICIAKO)
 AEIA ENANTIOXEIAOAYMINAT/

Καπετ ω λια έν 'Ρώμη 'Αθήν με Παναθί ήναια: 'Αθ ήνας 'Αδριάνεια: (την "Πρίας έξ 'Αργους άσπί δα:

5 "Αλεια έν 'Ρόδφ:
Μείλητον Κομμόδ[εια:
Σμύρναν πρώτα κοινά 'Α[σίας:
Πέργαμαν Αύγούστεια β:
Πέργαμαν Τραιάνεια β:

10 "Εφεσαν 'Ολυμπια' 'Εφεσαν Β[αρβίλληα' 'Εφεσαν 'Αρτεμείσια Κο[μμόδεια: ἐν 'Αντιοχεία 'Ολύμπια τ[...

For the general form of the inscription of Sterrett, Wolfe Expedition, p. 291 No. 413. Probably here too we have a public decree inscribed on the base of a statue in honour of a distinguished local athlete. The mention of Koundčeia at Miletus (J. 6), and at Ephesus (I. 11) enables us to fix the date approximately.

L. 1. For the restoration, of Sterrett, Lo. 1, 9.

1. 4. CL ibid. L 13-14, τhe iξ "Aργους dowloa, which is the more usual formula; for the addition of "Heas of CLG, 5913, τhe dowloa" Heas in "Aργει.

L. 5. For the "Alexa at Rhodes e. C.I.G. 3208.

L. b. Κορμέδεια is known at Miletus as a bys-name attached to Διδύμεια.¹⁹ but we can find no other instance of it standing alone.

L 7. For the restoration of Ditt. O.G.I. 509. 1 24.

L 10. For BapBixxna cf. C.L.G. 2741 and Ditt. O.G.L i. 153.

L 11. Konnocem seems new as a bye-name of 'Aprencious and doubt-

less was in use only for a short time.

16. Ib. Stele erect in a field near the guest-house. The top is broken. H. (without top) 06; B. 49. Letters 02. Copy.

ΕΠΙΑ WNITWNMEΓΑΛWN
ΚΡΟΝΕΙWΝΑΓWΝΟΘΕΤΟΥ
ΤΟΣΤΟΥΑΖΙΟΛΟΓШΤΑΤΟΥ
ΑΥΡ-ΔΙΟΓΕΝΟΥΣΤΟΥΚΑΙΔΙΟ
ΝΥΣΙΟΥΑΡΣΑΚΟΥΑΡΣΑΚΟΥ
ΝΕΙΣΕWΣΚΑΙΤΛWΕWΣ
Μ ΠΟΠΙΛΛΙΣΣШΤΥΣΓΕΡ

Έπι δίγ βοια του μεγάλου Κρουείου, άγωνοθετού(ν τος του άξιολογωτάτου Αύρ, Διογένους του και Δισνιαίου Αρσάκου Αρσάκου, Νεισέως και Τλωίως, Μ. Ποπίλλιος Σωτός, (Η)ερΓΑΤΟΣΚΑΙΚΙΒΥΡΑΤΗΣ
ΝΕΙΚΗΣΑΣΕΝΤΗΛΑΜ
10 ΠΡΟΤΑΤΗΤΛΌΕ Ο ΜΠΟ
ΛΕΙΤΗΜΗΤΡΟΠΟΛΕΙ
ΤΟΥΛΥΚΙΟΝΕΘΝΟΥΣ
ΠΥΘΙΚΟΝ ΔΙΑΥΛΟΝ
ΠΥΘΙΟΝΙΚΗΣ ΟΛΥΝ
15 ΠΙΟΝΙΚΗΣ ΠΛΕΙΣΤΟ
ΝΙΚΗΣ ΠΑΡΑΔΟΞΟΣ
ΕΥΤΥΧΙ

γα(ε)ος και Κιβυράτης, νεικήσας έν τῷ λαμπροτάτη Έλωέων πόλει, τῷ μητροπόλει τοῦ Λυκίων ἔθνους, Πυθικών δίαυλον Πυθιονίκης, 'Ολουπιονίκης, πλειστονίκης παράδοξος εὐτύχι.

For the name Σωτίκ of C.I.G. 6592 Arrios Σωτίκ (in Italy). For the position of Neisa in Lycio see Hoberdey, Festschrift für Kiepert, pp. 154 segq. We should certainly read (H)εργα(Γ)ος και Κιβυράτης in II. 7 and 8, assuming that our original reading ΓΕ was a ligatured ΓΕ, and that the Τ was due to a crack in the stone above the L. For the concluding words of C.I.G. 4240 c, 'Ολυμπιονείκης, πλειστονείκης, παράδοξος, For εὐτύχι (= bravo f) ν. Woodward in B.S.A. xvi. p. 125.

Ib. Small limestone block brought to the guest-bouse. H. 16.
 B.:13. Letters 015. Copp.

AIDAIDADOC

KAITANTWNETE

POCKAIMAKA

PWNOPFIACE

MNATEAECEAC

FHPACIMOCTI

NYTOOPWNEN

DADEKEIME

HENTHKON

ΑΙ Δαίδαλος και πάντων έτ(αι) ρος και μακάρων όργια σεμνά τελέσσας,
γηράσιμος, πινυτόφρων, ένθάδε κείμε
πεντήκου[τα έτῶν.]

In L 3 έττρος is almost certainly a late spelling of έταῖρος. Daidalos seems to have been a member of some thickor, possibly Kabeirie, ar more probably Orphic. The word παυτόφρων is explained in the Thesaurus (ε.υ.) as πινυτός την φράνησιε. Cf. Hesychius (ε.υ.) σωφρονέστατος, συνετώτατος.

γηρασιμος does not seem to occur elsewhere. It is probably to be connected with γήρας.

The whole is roughly metrical.

If For the warship of the Kaborrel at The of J.H.S. xv. p. 122, No. 10.

18. Ho. At the foot of N.E. slope of the acropolis, on a large panel (the lines often running over the edge). Letters 02. Copy.

- ΕΝΩΝΑΣΚΛΗΠΙΑΔΗΣΟΚΑΙΦΙΛΟΥΜΕΝΟΣ
- 5 OKONDA ZOKA IHPAKA A ZTAYKONKPATEPOY B - EYOEPO ZOKA IA TOAAONIO ZKAAA INEIKO Z - A - TOY - OHMEPOYTOAYNEIKO Z - TAYKONO ZENDETHEYONYMOKAEI
 - AXIGHENIOSAAMA B-ZOSIMOS-B-ATIOAAONIOS-F-OKAISYM
- 10 ΝΑΙΟΣΑΡΤΕΙΜΟΥΠΟΜΠΙΟΣΑΡΠΑΛΟΥΤΟΥΚΑΙΚΑΡΠΟΥΕΝΔΕΤΗ ΜΕΣΚΛΕΙΝΗΑΠΟΛΛΩΝΙΟΣΚΑΙΖΩΤΙΚΟΣΕΠΑΦΡΟΔΕΙΤΌΣ-Γ-ΣΤΕΦΑΝΟΣΕΠΑΦΡΟΔΕΙΤΟΥΑΛΕΞΑΝΔΡΟΣ-Β-ΤΟΥΕΙΡΗΝΑΙΟΥ ΕΙΡΗΝΑΙΟΣ-Γ-ΤΙΛΟΜΑΠΟΛΥΚΤΗΤΟΣΑΠΟΛΛΩΝΙΟΥ-Β-ΤΟΥΣΥΜ ΜΑΣΙΟΣΕΞΟΥΣΙΝΔΕΣΥΝΕΝΤΑΦΗΝΚΑΙΓΥΝΑΙΚΕΣ
- 15 ΑΥΤΏΝΚΑΙΤΕΚΝΑΚΑΙΕΓΓΟΝΑΜΟΝΑΤΟΔΕΛΟΙΠΟΝΓΕ ΝΟΣΠΕΠΑΥΣΘΑΙΕΝΔΕΤΏΥΠΟΣΟΡΙΩΤΕΘΗΣΟΝΤΑΙΤΏΝ ΑΠΟΤΗΣΣΥΜΒΙΏΣΕΩΣΑΥΤΏΝΘΡΕΠΤΑΕΤΕΡΟΣΔΕ ΟΥΔΕΕΙΣΕΞΕΙΕΞΟΥΣΙΑΝΟΥΤΕΣΥΝΧΏΡΗΣΑΙΤΙΝΙ ΟΥΤΕΕΝΘΑΥΑΙΤΙΝΑΗΟΕΠΙΧΕΙΡΗΣΑΣΟΦΕΙΛΗΣΕΙΤΗΤΛΏΕΩΝ
- 20 ΠΟΛΕΙΧΑΦΩΝΟΕΛΕΝΞΑΣΛΗΝ ΨΕΤΑΙΤΟΤΡΙΤΟΝΟΥΔΕΕΤΕ ΡΟΣΕΙΣΤΗΝΕΤΕΡΟΥΚΛΕΙΝΝΤΗΜΗΕΠΙΚΟΙΝΏΝΟΥ ΣΑΝΑΥΤΩΚΑΤΑΘΗΣΕΤΑΙΤΙΝΑΝΟΚΑΤΑΘΕΜΕΝΟΣΟ ΜΟΙΩΣΟΦΕΙΛΗΣΕΙΤΗΠΟΛΕΙΧΤΩΝΚΑΙΤΟΥΤΏΝΟΕΛΕΝ ΞΑΣΛΗΝ ΨΕΤΑΙΤΟΤΡΙΤΟΝΗΔΕΕΠΙΓΡΑΦΗΑΥΤΗ

τὸ ἡρῷου κατεσκεύασαν οἰ - ΑΣ τὴν κλείνην λαχόντες κα[τ'] ὑπογεγραμμένου καὶ ἐπέλαχ(ο)ν αὶ κλείναι ἐν μὲν δεξιοῖς εἰσερχομὶξνων 'Ασκληπιάδης ὁ καὶ Φιλούμενος,

- 5 Τρ]οκόνδας ὁ καὶ Ἡρακλάς, Γλύκων Κρατεροῦ β΄, Ἐκ]εύθερος ὁ καὶ ᾿Απολλώνιος, Καλλίνεικος δ΄ τοῦ Εὐ]θημέρου, Πολύνεικος Γλύκωνος ἀν δὲ τῷ εὐωνύμω κλείνης Ε]έρηναῖος Δαμά β΄, Ζώστμος β΄, ᾿Απολλώνιος γ΄ ὁ καὶ Συμμαχίδης, Φιλόκυρος ᾿Απολλωνίου β΄ τοῦ Συμμάσιος, Είρη-
- 10 ναΐος Αρτείμου, Πομπήιος Αρπάλου τοῦ καὶ Καρποῦτ ἐν δὲ τῷ μέση κλείνη Απολλώνιος (ὁ) καὶ Ζωτικός, Επαφροδείτος ἡ Στέφανος Έπαφροδείτου, 'Αλέξανδρος Β΄ τοῦ Εἰρηναίου, Εἰρηναίου ἡ Τιλόμα, Πολύκτητος Απολλωνίου ή τοῦ Συμμάσιος. "Εξουσιν δὲ σύνεντάφην καὶ γυναϊκές
- 15 abrair sal there sal eyyora mora, to be howed ye-

νος πεπαύσθαι . Έν δε τῷ ὑποσορίφ τεθήσονται τῶν ὑπὸ τῆς συμβιώσεως αὐτῶν θρεπτά: ἔτερος δὲ οὐδε εἰς ἔξει ἔξουσίαν οὐτε συνχωρῆσαί τιπ - οὐτε ἔνθαψαί τινα, ἡ ὁ ἐπιχειρῆσας ὑφειλῆσει τῆ Τλωέων τόλει (ὅηνάρια) αφ΄, ὡν ὁ ἔλένξας λήνψεται τὸ τρίτων οὐδε ἔτερος εἰς τῆν ἐτέρου κλείνην τῆν μὴ ἔπικοινωνοῦσαν αὐτῷ καταθήσεταί τινα ἡ ὁ καταθέμενος ὑμοίως ὑφειλήσει τῷ πόλει (δηνάρια) τ΄, ὡν καὶ τούτων ὁ ἔλένξας λήνηψεται τὸ τρίτον. Ἡ δὲ ἐπιγράφὴ αἶτη - . .

For the general form of the inscription of C.I.G. 4246 and the fragment 4250, though the formula here is rather different.

- L. 2. Probably the letter before ὑπογεγραμμένου was n T, our copies show t.
- I. 3. Apparently two subjects; κλείναι or the following names are a possible subject for the verb, and presumably the composer of the inscription, or the engraver, has lost his thread owing to the clumsy parenthesis &ν μέν δεξιούς κ.τ.λ.
 - L 4 Dilooperos, cf. No. 46 (from Olympus).
- L. 8. Δαμάς is a not uncommon name, cf. B.S.d. xvi. p. 127, note. Συμμαχίδης we cannot find elsewhere.
 - L 9. For Supparais of Reisen, ii. 54 (Myra).
- L 13. For Texopas et. ibid. i. No. 29, and T.A.M. 44 b, 21, Tiloma (ef. ib. 189).
- I. 24. For the concluding formula of C.I.G. 4247 (the ond of another funerary inscription also from Thos) ή δὲ ἐπεγραφή αῦτη καὶ ἡ ἀσφάλεια ἀναγέγραπται διὰ τῶν δημοσίων γραμματοφυλακίων ἐπὶ ἀρχιερέως, κ.τ.λ.
- 19. In a Turkish cometery near the village of Gornböku c. II hrs. to N. of the Kara Tehal on the road from Tlos to Xanthus. Copy.

MONYKOSSOPTIOYETHINEAN ADENDUKAISOPTIASIASONO TITOEATOYTATPHASONISOP <ALETITHMHTPI NAMASOMASO

Έρ]μόλυκος Σορτίου έπι [τ]φ έα[υτ· υῦ] ἀδελφῶ, καὶ Σορτίας Ἰισονίος ε]πὶ τῷ ἐατοῦ (κιο) πατρὶ Ἰασονι Σορ[τίου κ|αὶ ἐπι τῷ μητοὶ [Δ]αμᾶ (1) Σομάσ[ου ε

The concluding letters are uncertain. Δαράς is not an uncommon masculine name. E but there were no example of the feminine form, nor of the name Σομάσος.

II See above, No. 15.

20. Xanthus. In a Turkish cometery 20 minutes to the N.E. of the town containing several architectum blocks and the inscription published J.H.S. xv. p. 124, No. 14. Circular limestone basis, H. 62. Letters, first line '035, rest '015: Copy.

> YOIZAYZINMEEOHKEN ΑΘΛΙΟΣΠΑΤΗΡ AKATAMAXHTQA0IETEI TPIEETABETON ASIATIKOKAITONMEN ΩΛΕΣΑΝΦΛΟΓΕΣ. TONAAYOPENHPHIATPON ΗΡΠΑΣΕΝΝΟΣΟΣ ΩΝΗΣΕΔΕΟΥΔΕΝΗΕΥΣΕΒΕΙΑ

10 TOYELONHE

Τοίς δυσίν με ίθηκεν | άθλιος πατήρ 'Ακαταμαχήτω δοιετεί, | τρίς έξ δε έτων | 5 Ασιατικώ, και του μεν | ώλεσαυ φλογες, Τονδ' αὐ φρενήρη ίατρον | ήρπασεν νόσος. | "Ωνησε δε ουδε[ν] ή ευσέβεια | τους γονής.

21. Ib. Limestone block above the village of Gunik, H. 30, B. 1-23. Letters '04 (those to rt '035). Copy.

> TOHPWONKATCKEYACENAYPZWEIMOC A OPO DEISIACEAYTWKAITHTYNAIKIMOY POY OMONO!AKAITOIEZHMWNETEPOZAEOYAE EIA EICTA OHCETAIN A TOTEICEIO OA Y ACTHEE 米中

> > Το ήρφον κατ ε σκεύασεν Λύρ. Ζώσιμος 'Αφροδεισίας έαυτῷ καὶ τῷ γυναικί μου Oporola sal rois (1) & nuiter erepor de oude είς ταφήσεται ή [ά]ποτείσει ο θάψας τη γε-

pou-5 gia (Emigra) d'.

In 1. 3 E has been omitted by the stonecutter between the C and ₹. Lack of space bolow line 4 caused the remaining letters to be written to the right.

22. Ib. Round basis or altar to W. of Roman arch. H. 60. Letters 03. Copy.

> ACPOSEITH ETHKOQ

'Αφροδείτη Επηκόφ.

 Ib. Round basis built into mediaeval wall on the N.E. of the acropolis. H, 50, circumference 97, Letters 92, Copy.

ΚΑΙΕΙΣΙΟΝΕΡΜΟΔωΡωΤω
ΕΑΥΤωΝΥΙωΙ //Α///ΙΟΤΗΤΟΝΤΗΣ
ΘΥΓΑΤΡΟΣΥΙΟΝΚΑΙΕΡΜΑΙΣΚΟΣ
ΦΙΛΑΔΕΛΦΟΥΤΟΝΤΗΣΠΡΟΓΟΝΟΥΥΙ
ΟΝΚΑΙΑΛΙΝΗΤΟΝ ΗΣΑΔΕΛΦΗΣΥΙΟΝΚΑΙ
ΕΥΦΡΟΣΥΝΟΣΔΙΣΑΥΤΟΝΤΗΣΓΥΝΑΙΚΟΣ
ΑΔΕΛΦΗΣΥΙΟΝΚΑΙΕΡΜΑΙΣΚΟΣΚΑΗΣΙΠΠΟΥ
ΤΟΝΕΑΤΟΥΑΝΕΥΙΟΝ

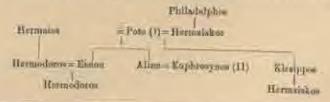
HPWI

'Ερμόδωρος 'Ερμαίου και Είσιου 'Ερμοδώρη τῷ ἐαυτῶν υἰῷ, [κ]α[ι Π]ότη(!) τὸν τῆς θυγατρὸς υἰὸν, καὶ 'Ερμαίσκος Φιλαδέλφου τὸν τῆς προγόνου υἰοὸν, καὶ 'Αλίνη τὸν [τ]ῆς ἀδελφῆς υἰὸν, καὶ Εὐφρῶαννος δὶς αὐτὰν τῆς γυναικὸς ἀδελφῆς υἰὸν, καὶ 'Ερμαίσκος Κλησίππου τὸν ἐατοῦ (κίε) ἀνεψιών ἤρωι.

There seems to be no exact parallel to the name Horn which we have restored in the text. Horns and also Horness occur as female names in Lycia. Coins of Dionysopolis in S. Phrygia have the inscription Zebs Hornes, and Zebs Hornes or Hore's is found at Buldur, while Hore's moccurs on come of Hadrianopolis. The remains of the letters in the present case best suit the above reading, but the name cannot be taken as certain.

'Aking is found as a woman's name in Egypt," and recalls that of the island "Aking off the coast of Lycia."

The relationship of the persons mentioned seems to be as follows:-



¹⁶ Reims, it. No. 176 ; J. H.S. xv. p. 125, p. 335.

No. 18. 18 Ramsay, C.B. I. p. 126.

¹⁴ Ramssy, ye at No. 178; B.C.H 1879.

B.H.C. Phrygia, p. 225, No. 1 sepp.
 Berlin, News Manner, No. 11,416

¹¹ Steph. Byz. a.r. Kpez.

It is uncertain whether Aline is the daughter of Pote (?) by her first or second marriage. Klesippos, who was probably dead at the time the monument was erected seems to have been her son by her second marriage. Hermaliskos the cousin of Hermodoros being named after his grandfather.

24. Ib. Round basis built into mediaeval wall on the N.E. of the aeropolis. II. 61, circumference 1-65. Finely cut letters 025. Copy.

ΤΛΗΠΟΛΕΜΟΣΣΤΑΣΙΘΕΜΙΟΣ ΚΑΙΛΥΚΙΑΤΕΙΘΩΝΟΥ ΤΛΗΠΟΛΕΜΩΙΤΩΙΥΙΩΙ ΗΡΩΙ

Τληπόλεμος Στασιθέμιος και Αυνία Τειθουσό Τληπολέμου του είδο ήρωι.

For the name Στασίθεμις cf. Reisra, ii. No. 87, 88. Ib. i. No. 41 the genitive is restored Στασιθέμι[δας]. where however there seems hardly room for three letters and probably Στασιθέμιος should be read, as in the present example.

Ib. Square basis to N.E. of aeropolis. H. 144, B. 40. Letters 03.
 Copy.

XAIPETE TOHPWONAAEZANAPOY TOYKAIAIAYZHTIKOY ENWTAHCETEAYTOC

5 KAIHFYNHAYTOY

APCACICKAI

ONHAEYGEPWZEETIKTHTON

KAIONANZWNETITPE†H

ETEPWAEOYAENIEZECTI

- 10 GATAITINAHEKKOTAITI
 TWNFEFPAM MENWN
 HIPOSFPATAIHYHOKEICONTA
 OGATAEKAIOANYJACKAI
 OEKKOTACKAIOHPOCFPATAE
- 15 TRAFMATITYNBWPYXIAC KAIATIOTEICEIEKACTOC AYTWNTHTIOAEIXTENTA KOCIAWNOEAENWACAHN TETAITOTPITON

W Cf. C. L.G. 4243 (at Thus).

Naipere. το πρώσε Αλεξάνδρο[υ τού και <δι>Αὐξητικού. εν ο ταφήσετε αντάς και ή γυνή αυτού. *Appares xal οι ηλευθέρωσε Επίκτητον, nai de de Cole entreéden. Έτερο δε ούδενὶ έξεστε 10 θώψαι τινά ή δεκόψαι τι The verpullation ή προσγράψει, ή Ιποκείσοντα[... à Bayas vai à iréfas (sie) sai ο έκκοψας και ο προσγράψας 15 πράγματι τυνβώρυχίας, kai amoreisei in model Squapia mentaκόσια, ών ο ελένξας λήν-Weras To Thirton

The name Διανξητικός does not seem to occur elsewhere Mr. G. F. Hill suggests that Δ) is a dittography after At. For Λύξητικός ef. C.I.G. 4243 (at Tlos).

26. B. Square basis built into lower part of mediaeval wall on the acropolis H. c. 115, B. c. 50. Hregular letters c. 92 Copy.

BIKTOPATIANOY A TEKOYTOPA RIKTOPATON ETENAPON ME SEKOYTO PANYEZOPA TEONTIAN TEXTROME UNCYNZYFOL 10 ENSTADIOIS OYFIATPIEHN: MIBYHNYNAE **EANDOIONE FAIAAYZANI** 13 ΟΝΔΑΠΕΔΟΝ KATEAEIZYN **JOFMATIMOL** PONTIAIZECE

AATIAPOAEITA
20 BAETIWNOTI
KAISEBANEIN
AEI AMAZW///
BIKTOPIANAPI
AIWEKTON

25 EAYTOYMNEI
AEXAPINTONBW
MON EITIZAEKA
GEATONOPYZHAWCEI
EISTODISKON*O

30 //AIPETAITAPO

Βίκτορα πάλο[ε] [α]] Σεκούτορα

Βίκτορα του | στεναρόν | με σεκουτο | ρα νθ ν | έσορά | τε, 10 δυ πάν | τεν τρόμε | ου σύνζυγοι | έν σταδίοις. | Οὐ πατρίς ἡν | Λιβύη κῶν δὶ | Ξάνθοιό με | γαία, αὐξαν | ου δάπεδον, | κατέ (χ)ει σύν | δόγματι Μοι | ο(δ)ν.

20 Παίζε, γέ λα, παροδείτα, | βλέπων δτι | καί σε θανείν | δεί. 'Αμαζών

Βίντορι ἀνδρὶ

[βίνη ἐκ τ ἐκ ν
ἐαυτοῦ μνειας χάραν τὸν βωμὸν. Εἰ τις ἔκ καθὲλ(κω ν ὁρῦξη, ὁωσει
εἰς τὸ(κ) φῖσκον ὁηνάρια φ΄.
Χ βαίνεται παρο-

The stone was lying on its side built into the wall with only the two last lines projecting. We were able to clear away the stones and mortar that covered the inscribed face by tunnelling into the wall, but the stone could not be completely freed without the destruction of a section of the wall. It was difficult to reach the top of the stone, and our reading of the first line is uncertain. Other difficulties of reading are due to the remains of mortar in the letters which could not be removed. We have to thank Mr. Tori for

Beitau.

various references to other inscriptions of this character " and for assistance with the text.

25

30

made Louis in Lydler (Dealactic Ster K. Akad. Wine Philips - Hist. Et. liv.), p. 110, No. 212, E.O. J. criii p. 150, No. 50.

^{*} The principal are C.J.O. 2003, 3742. Above C.J.O. abov. Hr 2042 b. 2042 b. (- Knibel, Prop. ofr. 200, 29), Ram. Mot. av. pp. 20 - 20), Kell and von Proposition, Besield Sher day

In line I we must almost certainly read πάλο(ν), the Y of our copy being probably an error for N C.I.G. 2663 has Στέφανος . . ; πρώτος πάλος. ib. 3765 δεύτεροι πάλου Μελίμαππου, Β.Ν.Α. χνία μ. 158, Νο. 30. πρώτος πάλος μιτιαρίων: cf. Dio Cass. χχχίι. 22 πρωτόπαλος σεχουτόρου, Lampridius. De Commodo, 15, Palus primus secutorum. Forcellini s.r. Palus, dictim cut ipso gladiator.

The A at the and of line 1 should be restored as A rather than A

The inscription published by Keil and von Premerstein (loc cit.) has .

AMPIAPADE SEK TITN IA

which is costored by the editors:

σεκ ούτωρ) πα(λμών) γ', ν(+κών | τα',

The more obvious $\pi \tilde{a} \lambda o_S \gamma'$ is rejected on the ground that, whereas a $\pi \tilde{a} \lambda o_S \pi \rho \tilde{o} \tau o_S$ (primus palus) and $\pi \tilde{a} \lambda o_S \tilde{c} \tilde{c} \tau \epsilon \rho o_S$ (secundus palus) are known, there is no definite evidence for a third rank ($\pi \tilde{a} \lambda o_S \pi \rho i \tau o_S$). Their quotation however of $\pi a < \nu > \lambda o_S \pi \rho i \tau o_S^{-2}$ adunts the possibility of a third or even a fourth rank. (Cf. $\mathbb{N} \Delta$ on the first of the reliefs published $Rom_S Mitt_{-NS}$ p. 99. Fig. 1.)

For $\sigma v \in vap \delta v = \sigma \theta \in vap \delta v$ in line 4 v. Herworden av. Examples of this spalling $(\tau \text{ for } \theta)$ in Asia Minor are given by Woodward, BSA, vvi p. 127.

For σύνζογοι = σύζογοι in 1–9 cf. Herzog, Unische Forsch. No. 123, ετεήσης και ἀποκτείνας τὰν σύνζογον, where the word is certainly to be explained as by Herwerden (**π.), ἀνταγρούστην, rather than sodalem (Herzog). Σύζογοι must have been used of pairs of opposed gladiators.

In line 14 we can make nothing of avearing. It may be merely had

Greek for angaror, although the sense even then is not of the best

27. Arsa, on a stone base lying on its face letters 015. Copy,

BAXXIETPOKONA EPITOMATPITPOKOI VATPOKONAOYTOY NEIKOMRAOYHPOI Βάχχις Τρακόνδ[νυ ἐπὶ τῷ πατρὶ Τροκό[νδ]ο Τροκόνδου τοῦ Νεικομήδου ῆρωι.

L L for the many Baxxis, of Barxis (C.L.G. 843).

28. H. Broken limestone block built into the wall of a house in the village. H. 26. greatest breadth (l. 4) 53. Letters carefully out 02. Copy.

assents sent Valence.

= Ath Mill xl. pc 182, Xn. 94 = LO. iz. 2,

Indor, Eposono, xvill. 63. Serator ab incorporate returnar dictar. Correlat caim cospident of the on plant in, par alveracii izculum impeditat, at antequas illa fericat sits, ip as apparent. How accounts

[&]quot; My requires = depleton, Teach = Heads, etc.

KAΔΟΒΟΡΙΣΓΚΑΤΑΤΟ

*HΦΙΣΜΑΕΡΗΝΓΕΙΛΑ

ΤΟΣΑΝΕΥΔΟΣΕΩΣΑΡΓ///

\$ ΑΡΜΟΑΕΚΟΥΤΟΣΕΓΗΓΕΙΛ

ΤΕΥΣΕΙΝΑΝΕΥΔΟΣΕς ////

ΓΕΡΜΑΚΑΣΕΡΡΙΟΥΕΓΗΝΓΕΙ

* ΝΕΥΔΟΣΕΩΣΑΡΓΥΡΙΟΥ

//////*ΚΟΤΩΝΟΣΕΙΓΗ

10

ά |νε| ν δόσεως άργυρίου Καδόβορις γ κατά το - - ψήφισμα έπηνγείλα| το - - -- τος άνευ δόσεως άργινρίου

Αρμόα Έκτουτος ἐπη(ν) γείλ[ατο ἰερα- (!)
 τεύσειν ἄνευ δύσε[ως ἀργυρίου:
 Τ] ερμάκας Ερπίου ἐπηνγείλατο - - - ά] νευ δόσεως ἀργυρίου:
 Τού]ης (!) Κότωνος ἐπηνγείλατο -

10 - - ανείν |δύστως άργυρίαν.

The inscription apparently is a list of persons, one of whom (l. 5) is a woman, undertaking, without remaneration, some public service, the nature of which is uncertain. For our restriction ispaliteoses in Il. 5, 6 years as revocas is equally probable.

The stone is broken so that it is impossible to be certain of the length of the lines which may well have been uneven on the right, the proper name in each entry beginning the line as well as the clause. <code>oscimpolros</code> which has been suggested in Il. 3.4 is a possible restoration, but unlikely. In any case it is improbable that -roc is to be regarded as part of a proper name. The entry in Il. 2-5 is fuller than the rost, but there is certainly one entry at least preceding it

The chief interest attaches to the names.

Καδόβορος is a campound name, Καδ-ηβορος. The first part = Cilician Kαδάς (Sterrett, W.E. 61), Κάδας (ib. 138), Καδέας (ib. 296), cf. Καδα-δηνός (Heberdey-Wilhelm, Rejorn on Kil(kien, 190, cf. Sterrett, ib. 63, 128). Secturiter Buckler and Robinson, A.J.A. xvi pp. 83 seqq.

The second part -oSopis by a common vowel change = abase, cf. Rev=a. 82 KirôaSupis and T.A.M. 103, 125 Katabura. Abora occurs as a

common noun in Tak.M. 35, 2.

"Apple is the feminine form of 'Apples, a variant of 'Equies (Ress).

1. 51) of 'Applevies (ib ii 126) = 'Epperies (ib ii 9), 'Applevie (ib ii 223) = 'Epperie (J.H.S. xv. p. 131). See further A.J.A. xvi. pp. 30 seqq.

The name Extors seems to be new; for the form of 'Allows ourses (B.S.d. xvi p. 115) and Emappoins (No. 34).

Tleppakax is the most probable restoration in 1.7. It would probably

be *triiomako, formed like kinako, araku (TAM: 125).

For Epwing of J.H.S. xv. p. 122.

The norm Tokay, which is suggested in L 9, is not an uncommon one (cf. C.I.G. 4403, Lanckoronski, op. vit. ii. 260).

Koran closs not seem to occur obsewhere For Korian v. C.1 G. 7100.

29. Fellendagh. Letters 045.

The inscription was found in a stone-heap at the ancient site on the Fellendagh is near Andifile (Antiphellus). The fragment seems to have been part of the architerys of a rock-tomb of the normal Lycian type, and lay almost in front of the small group of tembs illustrated by Spratt and Forbes.

The epitaph opens with the customary formula:

of. T.A.M. 117:

obeija arajunzija ne ti prinimentė.... obeija aminizija ²² me ti prinimentė riderija. τὸ μεήμα τόδ' ἐπουήσατο Σιδάριος:

The line probably ended with the name of the maker of the tomb.

In line 2. Armāa[s] is probably to be considered an ethnic following the proper name in the line above. The use of ethnics is uncommon in Lyclan epitaphs, but an example seems to occur in No. 113, plla[re]zi. Mr. Arkwiight compares No. 82:

** L. the Talukuring of T. L.M. 24. In Johrson Co., No. 177 I. Talihar, p. 60, 179 I. Kalluka gives the ribid Manakirar as excitos in an inscription at the ribi, and suggests thinks as the pure.

" Think in Ly in L b. 70.

The form various terrorium energy (T. A. de. 14). 123, 133) and concerns (40 °, 147). Supplied (Kito, 1911, 473) connects Karien (a) recognition (Kito, 1911, 473) connects Karien (a) recognition. The interpretation of account from the range of the first of Steel figure and the second first of the commercial with GL. 143 at the word is the commercial with GL. 143 at the word is the commercial with GL. 143 at the word is the commercial with GL. 143 at the word is the commercial with GL. 143 at the word in the commercial with GL. 143 at the word in the first commercial wit

brought into harmony, shows the word is to a compound, probably from on (ara), butters due on 'in account, an injective from over "with 'or 'negative.' The main ye forms a kind of collective, as in Z. J.M. 24, frame hippings: (nee angle the upper row of blanches, from takes) is "beach" (axion). The whole would mean 'a set (at lands) places, to be beld in common in accounting, see, 'a heralitary family tends.

This is the most probable explaination; although Kluge (Min Fred. Co. 1910) p. 36) suggests that the west may possibly be a proper asm. No. 22, where thirdes -TAmes, pilledni - is there is the continuous than an equaph. In 202 Mr. Atkweight considerational as some probably a personal many.

uhube certfi[s] hubudah tideimi.

certific being a town apparently near Candyba. In the transcription of the inscription in T.A.M. the final -s is omitted, but Mr. Arkwright tells us that the upper and lower extremities of the s can be plainly seen on the paper cast, and less clearly in the published facsimile.

There is some uncertainty with regard to the final letter of Aranas. There is no example of the use of C for s in Lycian inscriptions, but it seems probable that the lower part of the letter is efficied and that we should read ϵ_{μ} , which Mr. Arkwright tells us is the form used in No. 23, where the

published facsimile incorrectly gives €.

In No. 82 habridah tideimi, which follows the ethnic makes it probable that in the present example the latters kitt —— are to be regarded as the beginning of a patronymic, ktt[- - k tideimi]. The alternative suggestion ktt[bil] (cf. Nos. 89, 90, 118) seems unlikely in the present context.

In the third line the letters are more widely spaced. The first two letters are probably PF, the most likely restoration being awarded, a word which occurs in Nos. 17, 20, 114, 115, and has received various interpretations.

Mr. Arkwright has communicated to us the following explanation of the word. The unitia -α is by demisalisation for -α i which has a distributive meaning, of No. 107, s(s) ladar shitala, and their wives respectively; 20, 30, as ζασίται lada, and their wives (are) their partners respectively; 20, 11, (demasalised as in the present example) white a fee in every case. Another would be formed from a noun "aventar or "awate," which itself would be formed direct with the -h-suffix from the preposition or adverb FFF (ΔFF). with or together, (see above, p. 22). "Awater or "awate would mean something in common," a common right," or "common-ownership," and with the suffix at would mean "shares in a common right," or "a partnership with others."

Mr. Arkwright restores the fime:

awiahali minti aladahali uda - -

In No. of Kings summer taken with Typerias, but this is not seriale, and its No. 43 he suggests that plantoke may be an ethnic (from Lydma), but in No. 32 parasets toloral is cortainly a patronymic. The per of the ethnic in the present example scattle be partial if it a Xanaham was building the total in a foreign sity.

We transilierate H by & following Mr. Arkwright, who organis H as a stillant very much yapproaching the Lysias E. (No bits bound they not given up H = 2, as Jahren

Auste 11: 65.3

For such naums of Kranidas (Reissa, II. 176) Kranisius (15, 15, p. 146, n. 2), Kranisius (J. H.S. 27, p. 112, 20, 25)

" Ry. Torp. Lybisch: Brite-1. 34, m cerbal substantive = Schildiger. See further, Kings.

- L pp 49, 301

- II, as is possible, the suffice of case size convey the same of distribution over a special time, messical might be more simply resulted in faint rights from time to time, or 'smoosarely.' Part-rights respectively to the mind's " for additional-future-per-

30. Cyaneae. On the panel of a sarcophagus to the left of the ascent to the acropolis. The panel measures H. 37 B. 76. Letters 035. Copy and impression.

TONTAGONKATESTH

MHTPIOYOIKENEN YAN

SYNBIEKAITEKNOISKAIEFFON

EEFGYPYPIOYKAIOISANEFEENFPAGESSI

5 ΧΩΡΗΣΩΑΛΛΟΣΔΕΜΗΔΕΙΣΕΝΚΗΔΕΥΣΑ ΗΑΜΑΡΤΏΛΟΣΕΣΤΩΘΕΟΙΣΟΥΡΑΝΙΟΙΣΚ ΕΠΙΧΘΟΝΙΟΙΣΚΑΙΟΦΕΙΛΕΤΩΤΗΚΥΑΝΕΙ ΤΩΝΓΕΡΟΥΣΙΑΔΗΝΑΡΙΑΧΕΙΛΙΑ

> Του τάφου κατέστη[σεν ὁ δείνα Δη μητρίου, οίκου ἐν Κυαν[ἐαις ἐαυτῷ καὶ τῆ συσβίω καὶ τέκνους καὶ ἐγγόν[οις καὶ - - -ΕΩΣΦΥΡΙΟΥ καὶ οἰς ἀν ἐγὰ ἐνγραφῶς σ[υν-

παρήσω. "Αλλος δε μηδείς ένκηδευσαϊτω
η άμαρτωλος έστω θεοίς ούραμοις κ\α\
επιχθανίως και όφειλετω τη Κυανειτου γερουσία δηνάρια χείλια.

L.2 Oiron in ve settled as incola,"

We can find no parallel to the imprecation θεοίς οὐρανίοις και ἐπιχθονίοις. The common formula mentions the gods of the lower world alone ³⁴ or together with the θεοί οὐράνιοι. Here it is more probable that we have to do with an error for καταχθώνοι, rather than an allusion 30 the Hesiodic δαίμουςς ἐπιχθώνοι.

- 31. Sura. On a sarcophagus half an hour up the road to Giolbach, on S.W. of road by a tower. Letters 925.
 - (a) On the panel. Copy and impression.

HNAFOPACIACONDEMYPEYEEAYT EKAITEKNOICKAITOISEAYTONKAI

and Asion, it No. 27, an elected to account about the rips aletter, high consummed account about the relative state of the high and aletter and the manufacture of the high and the manufacture of the high and a first the high and a first the high and a first the manufacture of the high and a first the high a happened to the high a transfer to his highest that a happened to an exception of the highest that a happened to an exception of the high and the highest to an exception of the highest to a second of the high

Mana1

3 Romey, O. M. H. 471.

14 Sumprished form from annual rises (C. I.G. 1932 b, 4259, 4308, or).

C.L.O. 1253; Lors lepidunos desis separates and array@estics.

" Hestod, Op. 122; of Robits, Psyche, p. 671.

THEONIATIONAMNIOYKAGYIO EXIAN

--- THE TANFE ALACOYEH ANTITOBOYAOMENGE TITOTPITO

Τὸ μυημείου κατε σκ ευξα σεν ['A]θηναγόρας 'Ιάσονος Μυρείς ἐαυτῷ καὶ τέκνοις καὶ τοῖς ἐαυτῶν καὶ 'Πά συνι 'Απολλωνίου καθ νίο[θ] εσίαν 5 Δημητρίου . . - μυρει άλλφ δὲ αὐδ-[τὰ]

της έπαντελίας ούση[ς παυτι τῷ βουλομένω ἐπὶ τῷ τρίτω.

(B) beneath. Copy and impression.

CYNXOP DEDHMHTPIGAIC-YAOY
APNEATHTOKATACKEYACANTIMOY
TOMNHMEIONTEOHNAIAYTONEIC
TOMNHMEION

συνχωρ[ω] δε Δημητρίφ Αίσ χ]ύλου 'Αρυεάτη τῷ κατασκευάσαιτί μου το μυημείον τεθήναι αὐτον είς τὸ μνημείον.

L. 3. Eagras presumably for acres.

L.5. The ethnic of Lioner Anolderiov is not quite certain; one would expect it to be Mapsi, but there is a gap of about two letters between AHMHTPIOY and MYPEI. In this gap there were no traces of letters either on the original or in the squeeze, so it may be that the stone was two weathered at this point for the mason to use, and that Mapsi is the right resulting.

II. 8, 7 are to be filled up with the form foundentifical risa of

extense s.r. X. or a similar formula.

The Jason adopted by Dometrius is probably a nephew of Athenagoras, for we may suppose his adoptive father to be the Demetrius monitoned in the postscript, who from the context would be a contemporary of Athenagoras. The older Joson gave both his sons Olympian names, and his grandson was named after him.

32. D. On a surcophagus by the last, a large jugged hole in its side. Letters irregular, '03-035. Copy and impression. TONTAGONKATESKEYAS
ENENBPOMOSBTOYAIONYSI
OYEAYT@KAITHFYNAIKI
MOYHAPOENI@AIONYSIOYKAIT@
5 HATPIMOY!/ENBPOM@AIONYSIOY

ENBROM

TO A-A

ZENBP

HEHPA.

TA PO

H ENTAYOR

THEMPOS

EPOYEIA/////

HEMANTITOBOYAG

MENONETITOHMISI

Τον τάφου κατεσκεύασεν Ένβρομος β΄ τοῦ Διονυσίου ἐαυτῷ καὶ τῷ γυναικί
μου Παρθενίω Διανυσίου καὶ τῷ
ὅ πατρέ μου Ενβρώμω Διανυσίας
καὶ τῷ μητρὶ ... τῷ ἐὶ καὶ Ζωσίμξη
Ενβρήμου τῷ [α] ἔξε]λ
ψῷ] - "Ενβρ ...
ΗΩΝΡΑ
10 - κηδευθ [ῆ] ναι] ἐνταῦθα
ἡ ἐκτίσ[κι τῷ ... γ [κρουσία τῆς πρ] άξεως οῦσ [ης παντὶ τῷ βουλο-

I. 2. 'Response is a common name in this part of the world, e.g. at Sura on the dedications of Apollo Sarius, 'EuSpones S & sal Zeogmos S Myročovav' (possibly a relation of the family here in question, cf. 1.6).

nerwy (sie) to to hulou.

L 4 For Haodérias as a waman's name of Reisen, vol. ii. No. 255,

Κλαυδία Παρθενίω γεναικί

1. 6. The restoration of l. 6 is uncertain and of 7-10 hopeless, for the blank left after MOY in l. 5 shows that aiready at the time the inscription was cut the stone was in parts too bad to be used and this flaw possible spread into the lines below. The restoration suggested is patients the most plausible, for obviously I 6 most contain the mother's name, and if Zωσίμη were the name of a sister we should expect τῆ ἀδελφῆ before it, as we get the relationship expressed in II. 5 and 8.

L 12 Presumably the recoverie of Myra is meant. Cf. Reisen, ii 77

⁼ Helambey and Kalinka in tunkecks (for der K. Akad. in Wicz, alv. p. 16, No. 49.

(from Dembro), τg Mupton repowerly, but the exact formula is uncertain, there would hardly be room for MYPEON before Γ EPOYXIA even if

ligatured unless the cutter wrote extler, cf. below | 14, im to halor.

L 13. On the stone the sixth and seventh letters were expired (doubt-fully) as 0 and Σ, but there is not room for προσαγγελίας or προσυραφής. For the restoration proposed of Borecht, p. 18. No. 58, της πράξεος σύσης παυτί τὰ βουλαμένω (from Sidschak).

 Dembro (Myra), on a broken Ionic architrave built into a wall of a field near Hagios Nikolas. Letters 06. Copy and impression.

EIMHTHEATABIOYTTA YLATOYKATANTIETPATHFE

τ]ειμητής διά βίου πα[τήρ πατρίδος ΥΙΔΙΟΥ - και αυτιστρατηγο - - -

I. 1. τειμητής δια βίου = consur perpetunes and must refer to Domitian, the only emperor to bear that title OL (at Planselis) Αὐτοκράτωρ Καίσαρ Οὐεσπασιανοῦ νίος [Δομετιανός] - - τειμητής διηγεκής πατήρ πατρίδος.²⁶

L.2 The governor mentioned is probably Gains Caristanius Fronto, of whom we hear only in four other inscriptions. In the last of these (if the restorations of Domitian and Caristanius are correct) we find that he super-

vises the erection of a store to Domitian.

The general form of the inscription is not clear; the nominative in L.1 suggests that Domitian, whose name and style would have appeared in full, was the donor of a huilding screeted under the care of the legate (&d Kapistaniov -- artistpatifyov rel sim.) On the other hand YIAIOY suggests & tob follow, yet if this be accepted, the sai is awkward AOYIAIOY as a proper name is impossible, there being no commonsure.

34. Ib. Square finestone base, in a field near the monastery, just made the wall. Letters 93. Copy.

NAPRIZZOSKAIO AAEZANAPOS OITEIMHTIKOY TOYEITA & POYTOS

AIΔIAΛΕΞΙΘΝΟΣ
 ΦΥΣΕΙΚΑΛΛΙΚΡΑ
 TOYTHMHTPI

Νάρκισσος και
'Αλέξανδρος
οι Τειμητικού
του Επαφρούτος
ή [π]αιδί 'Αλεξίωνος
φυσει Καλλικράτου τῆ μητρί (οις).

L 3. We can find no other example of Temperation used as a name, or of Έπαφρούς, though the formation of the latter is common enough in this part of the world, eq. Έκτούτος in No. 28 (q m) and 'Pačobe, 'Αμπαρούς at Olympus."

L & the emission of the mother's name is carious.

[&]quot; Lore and Res Element and the 75%

[&]quot; Jh Not 100, 112, 555, 239 [7]

[&]quot; Cr. AYIAION DIPMON a legate of the Flavian period (io. 725 at Myra).

⁴ B.C.H. xvi. Nos. 29, 88, The name Examples of homorous is found C.I.G. 5054, where it is probably guildies (see Pape-Benseler, 8.v.)

35. 1b. Fragment in the courtyard of the monastery of Hagios Nicolas. Letters 03. Copy and impression.

> ΗΤΡΙΩ ΜΩΝΟΣ ΝΟΙΣΑΥΤΩ ΑΤΗΘΡΕΠΤΗΣ "ΝΙΕΞΕΣΤΩΤ ΕΙΛΕΤΩΘΘΑ

Δημ ητρίω - - μωνάς τές |νώες αὐτῶ| ν - . α τῆ θρεπτῆ Σ - αλλω δὲ αἰδε |νὶ ἐξέατω τ| αφῆναι - ἀφ |νελέτω ὁ θά| ψας - -

36, 1b. Fragment in the same place. Letters 63. Copy and impression.

NAMETONA YPHATOY NAPOYNANNHOMY TATMETAYTOYKATA HNEIKIOYALYPE Μ μημείου Αύρηλίος ν

α μόρου Νάννης Μυς ρέως ?

τ με μετ' αύτοῦ καὶ 'Α

η Νεικίου Μυρέζους.

- I. 2. Λόρηλιος . . . νόρος is presumably the son of Nάννη, otherwise one would expect sal between . . νόρος and Νάννης, and μετ' πότων in place of μετ' πότων. The use of their mother's mane instead of the nather's is noteworthy, unless the owner was originally a slave whose father's name was unknown.
- I. 3. Tan should be completed as Tapijerras or similar word. The form of the inscription with the builder's name in the genitive is unusual.
- Andraki, on the panel of a sarcophagus above the path to Myra, 5
 minutes from the grammy. Letters 02 (1st line 025). Copy.

AYPHAIEMHTPOAMPOCEE

BACTWNATTEAEYOEPOCOPIAPIC

ZWNÓPONWNEAYTWKATECKEYA

CETHNCWMATOGHKHNKAITHFYNAI

KIAYTOYAYPHAIAKAEOTTATPAKPAOYC

AAAWAEOYAENIEZONECTAIENKHAEYOH

NAIETTENLOIEITWIEPWTATWTAMEIW

*BØ

Αύριλι(ο. Μητρόδωρος Σεβάστων άπελειθερος όριαρη ο'ς ζών φρονών έσυτώ κατεσκεύασε την σωματοθήκην και τη γυναιδε κὶ αὐτοῦ Λύρηλια Κλεοπάτρα Κράριν άλλοι δε οὐδενὶ εξόν έσται ἐνκηδευθήναι ἐπεξί δώσ lei τῷ ἐρωτάτω ταμείορ δηνάμια βφ'.

L 5. We can find no parallel for the name Kpane, and the psading of two letters was uncertain. Heavy rain prevented our making an

impression.

L. 7. The restoration is not quite certain, but that it must be something of the kind as shown by two inscriptions from Cibyra trepo de ovderl K.T.A. Inel anadores to sparioty Books s.t. A and trepo of e.t. A. In Brace (sie) to фотко. For the leportator tagetor (i.e. the fiscus) we references in Cognat. I.G. ind Res Rom. poet; in 11.

Anrelius Metrodurus was doubtless attached to the great gramary which Hadrian built at Andraki. Another opeanox is the dedicator of a late relief

at Kokovah.

38. Corydalla. On a lintel, broken at the top and right-hand safe, half buried in the Turkish cometery at the foot of the acropolis. Letters 015 02 Copy.

AHDYSOTHPHILLINNNOEDIKTHTO: MIABANAGAYE AEONTIAITHKAIZEPAHIAAIKAITOIZTOYT@NTEKN AAAGAEOYAENIEANMHTINIENTPAOGEZYNXOPHZ TIZETEPONOAYHTINAODEIAEZEIBE@MEFAA@Z OAEE NIAT HNYETAITOHM

50

RELITOIS TÉREPOIS α | ή- | οῦ Σωτηρί | γιο | Νά | ενω Έπικτήτο | Έρ | μια Θάλλο Λυσ Λεουτίδι τη και Σεραπίαδι και τοις τούτων τέκυ οις μόνοις, They do mident far my tim beypador arrampy ow eyo far de τις έτερον θάψη του οφειλέτει θεώ μεγάλω Σιάζουτι . . in he a de justar . . . A joy veras to hal tou.

The name of the builder of the tumb does not appear if the restoration of the first line is correct it contains the names of his children. Zarrhayou is not an ancommon name, ct. I. G. ad Res Rom, pert, j. No. 372, but the restoration is not certain; on the stone the letter after the I looked more like a T. Navvey occurs at Thora " Eppla is not rare in Asia Minor, of Ditte aberger, O. G. I No. 481, I. 5. For Oaxxos of I. G. ad Res Rom. port. E. No. 729.

L 4. Sound is a mounted deity well known in Lycia and connected with Kakashon (see No. 1). He appears on coins of Arycanda, Chama, and possibly Cymnese.

L 5. Presumably some compound form of LauBires, e.g. supakije-Perdu.

^{*} Remain, p. 5. Nov. 13 and 16.

** C.L.S. 4031. "Holour Leelest youngravels." war' bone role deals draffers.

^{# (2.1.12. 583)}

[&]quot; For Secon see Hill in J.H. & 1695; pp. 129. 130, and coherences there-

 Deliktash (Olympus). On a broken limestone block. Height 37, breadth 54. Letters 03. Copy.

ΔΟΝΟΣΟΛΥΜΠ ΚΑΙΜΥΡΕΥΣΚΑΙΤΛΩΕ ΝΕΙΚΗΣΑΣΚΑΤΑΝΔΡΩΝ ΠΑΛΗΝΕΝΔΟΞΩΣΘΕ

MIAOSEBAOM-ISEKAQPE
ASAPEMOYSHSKAIG
NAYASANTIMAXOYT
-KAAAIKPATOYS

[ο δείνα Σαρπή [-]
δουνς 'Ολυμπ[ηνός
και Μυρεύς και Τλοιε[ύς
υπκήσας κατ' Αυδρών
πάλην Ανδόξως Θέδι μιδος έβδύμης έκ δωρέας 'Αρτέμους τῆς και
Παύας 'Αντιμάχου τ(οῦ
και] Καλλικράτους

- L. I. Σαρπή[δουσε is a probable restoration, for the name is common in Lycia.
- L. 5. For Artenies as a name at Olympus of Berard. B.C.H. xvi. Nos. 67, 72; and for this particular form of declension of the dative Metri τŷ sal 'Αρτίμει; ¹⁶ generally the nominative ends in -οῦς and the genitive in -οῦς αν.
- L 6. For the name Have op Berard, ib. No. 54, and an inscription of fourth cent. B.C. at Corma.
 - 40. Jb. On linted of built tomb, on the left bank of the stream.

Αύρ ήλως) ο Ζώστμος Πεισή θ [ε[ί] ας του τύμβου κατεσκεύασευ ξαυτής κ(αί) [τῆ γ]υναικί κ(αί) τέκνοις κ(αί) τούτων τ[έκνοις] τε κ(αί) δ [κγ] ουυς - έτέρφ δε ούδεν εξέσται κηδεθααί τινα ή δ [ποτεισ-

ο δενί έξεσται κηδούσαι τινα ή ώ ποτεισάτοι το δερωτάτου] τομείο (δηνάρια) ή.

Letters $AE\Sigma\Omega$ in the first four lines they measure 04, in the last two 02 K is used for xai throughout, so that probably in line 3 the original reading was KHEYNAIK! rather than KAITYNAIK! In line 1 possibly K has been unitted between the 0 and Z, so that we should read $Aip(\eta\lambda is)$ of xai Z.

41. Ib. On the lintel of a tomb beside the last. The lintel measures of and 19.

Διονύσ(εος) Δημητρίου κατεσκεύασα του τύμβου εαυτώ και τέκνοις και έκγόθοις - έτέρω δε σύδευι έξεσται κηδεύσαι τινα ή τείσαι (είν) τή πόλει (δηνώρια) φ.

Letters AEHES, measuring Off.

^{*} Heberiey and Kalinka, Deat. Uv.K. Akad, on Wiles, alv. p. 27, No. 28,

W Hilpard, ob.

^{**} Helieniey and Kalinka, ib. p. 11, No. 34.

42. Ib. Near the last on lintel measuring 94 in length.

Αύρ(ηλίου) 'Αρπά[λου Κ]όνωνος τρίς 'Όλυνη[ην]οῦ τὸ μνη(μ)είου.

Letters '025, forms as in preceding.

There seem to have been no letters in line t to the left of AYP. The name Kåvær occurs elsewhere at Olympos (J.H.S. vi. p. 361, No. 138). In 1.2 the stone has TONNEION. For Αρπά[λου (cf. No. 18 at Ties) perhaps we should read 'Αρπά[γου.

43. 16.

5 πω, ή ὁ βιασάμενος ἐκτείαι τῷ ἰερωτάτω ταμίω (δηνάρια), αφ΄ δεν ὁ ἐλένξας λώνψετε τὸ τρίτου.

Latters AEZEY 10; measuring 1025.

The first line is very much worn and it is impossible to be sure about the name Handarias, with which the remains of the letters seem to agree.

41 Th

Κατασκεύασεν τον τύμβον Πέβγραμος Τροκόνδου Όλυμπηνός δαντῷ [καὶ τῆ] γυναικὶ αὐτοῦ Κοσμία Πισιθέας καὶ τέκνοις [καὶ ἐ]κηλύοις ἐτέρφ δὲ οὐδενὶ ἐξέστε κηδευθήκ-

 ε. [ή ὁ εη βεύσας τινὰ ἐκτίσι τῷ Ἡφαίστῳ (δηνάρια) α · ὡν ὁ ἐλέἐξ βας λήνψετε τὰ τρίτον, ἐκτίσι ὁ μή τινι ἐγώ ἐν-[γραφ]ώς ἐπτερέ]ψω.

Letters ΔΕΣΣΥω, measuring 03.
For the name Πέγραμος see Reisen, il. Nes. 179, 180.

15. Th.

Μ(άρκος) Δύρ(ήλιος) Δημήτριος 'Δν[τ]ιάχου ['Ο]λίνπηεδε τον τύνβον κατεσκεύασε μίβ Δημητρίφ καὶ εύμφη Δημητριακή καὶ συντρόφοι μου Δρακόντι Νακωτίφ, άλφ δε ούκ Ε

δ ξέστω θυκηδουθήναι εἰ μή τι (1) εγώ ἐνγραφῶς αυνχωρήσων εἰ δε τις ἐκβιμαηται, δώσε τῷ φίσκῳ (ὅηνώρια) κιβ . ὡν ἀ ἐλέυξας λήνψεται τὸ τρίτου.

Linting ACECW.

L 4. Νακώτιος is probably an ethnic (cf. 'Λζώτιος, Βουθρώτιος) from a town Νάκωτος or Νάκωτος, which can, however, have hardly been in Lycia.

40. Th

--- Αύρ(ήλιος) Βάσσος 'Αρτεμ----- ος 'Ολυμπηρός έσυτή και γυνα[ικι και τεενίοις αύτόν] και Φιλιυμένη
--- και [εξ πινι ένγραφώς έπιτρεδ ψω, έτέρη δε ούδενι, η ό βιασό[με]νος κηδεύσαι τινα έκπείσε[ν] (ε[ρ]α θεῷ 'Ηψωϊ στ [ω
δηνάρια φ' - ων ο ελένξος λη[ν]ψεται το γρίτοι-

For the formula at i. 6 cf. Bérard, No. 33.

For the name Φελουμένη of Borard, No. 33, Φελουμένη Έρμαζου and Φελουμενος (above, No. 18).

47. Turamentuk. On the panel of a sarcophagus standing with three others above the road. Letters 03. Copy and impression.

AYPMHN H M NOAGPOYKATECKEY ACENTHNEGMA TOBHKHNEAYTG

Αύρ. Μην[α]ηξε β τ] Μ[ηνοδώρου κατεσκεύασεν την σωματαθήκην έαυτώ

5 KAITHFI///////MOY

is sai to y warsi] nov

- L. I. Mysocious of Mysocious of Mysocious alternatives. It is probably β Mysociopou and not row, for there must be a Σ after the H and there is not space for much more than one letter.
- 48. Kodjakeni. On the panel of a samophagus with sculptured bosses. Letters 02. Copy and impression.

EPMACAICM ACOYSOA ATTOCK ATTECK MINIMENATO EMATOOHKHNEAYT EKAITHFYNAIKIMOY

5 EKAITHFYNAIKIMO AHMHTPIAKAPHOY EAYTOIEMONOIE Ερμάν δις Μ[ο]λέους ΦΑ ΑΠΟΠ Α --- ΕΝΔΟΥ ευτεσε[εύασεν] την σωματοθήκην έαυτ-

δ φ και τη γυναικί μου Δημητρία Καρπου ιαυτοίς μόνοις:

1, 2. We cannot find a suisfactory restoration for this line, on the stone theory seems to be the first apright of a square letter after the Λ, while ENΔCY at first sight would point to some form of Τρίβενδα, cf. Τρεβείν δάτης in 1–2 of No. 49. Then the whole would read ἀπὸ πόλεως Τρεβενδων π and the last latters of the first line might be an abbreviation for Φασηλείτης, cf. Φασηλειτίδε on 1, 5 of the companion inscription No. 49.

[&]quot; Of Below, ii. 111. Edvines Mupier and Toublebox.

But our copies show no hesitation about the final OY and the other latters may conceal a name such as $\Phi\lambda a$. How λ^{*0} ..., if so, are on may be suggested for the last five letters. To judge by No. 49 we should expect some indication of origin, so perhaps the first alternative is to be preferred.

49. Kedjakeni. On the panel of a surcophagus near the last; to left and right of the panel a female and male bust. Letters 03. Copy and impression.

5 EPMAIDY & HAELT

Α ... Μο]λέους Τρε-Βε[νδάτης] κα[τεσκεύασε τόν] τ[ύμβον | έ]αυτώ και τή γιναικ[: δ Έρμαίου Φα[σ]η[λ]ειτ[:

de fautois plavois.

L. L. A relative, probably uncle, of the Eppas of No 48.

¹L. 2. For the form of the ethnic cf. LG, ad Res Rom; pert. iii, 794 h 10.

L 3. The lim is too fragmentary for the restoration to be absolutely, contain

Kodjakem. On the broken panel of a sarcophagus near the last.
 Letters 03. Copy and impression.

FYNEKIAYTOYAYPNAN

KAITEKNOEMOIA

ETI- ÇOKNAIMITPI

OYKETIOYFAPIOYAYP

NOIC

ό δείνα κατεσκεύασεν τον τύμβον έαντῷ καὶ τῆ () γυνεκὶ αὐτοῦ Λύρ. Νάς νη] καὶ τέκτο(ε)ς μο(υ) Δῦ[ρ . 'Λρ /]ετῆ [κέ] Σώκ(η) Δημητρίου κὰ τῆ θυγατρίου Λύρ. 5 Ναυ]ν[ή]λη ἐαυτοῖς μό-

L. 3. 'Apero is a possible name and contains just the right number of letters. The next name is not quite certain, our copies give N as the last letter and it was not clear on the impression; $\Sigma \delta s cos^{31}$ occurs but the feminine seems to be new.

1. 4. The grammar is remarkable but every letter was plain on the stone and the impression; we have already had not for now in 1. 2.

L. 5. As the first letter looked like N on the impression and NI in our copies is probably for MI on the stone, the name Namon above renders the reconstruction here given telerably certain; for Namonas of Woodward.

⁼ Cf. Dittenberger, O.G.I. No. 636. H.S.—VOL. XXXIV.

³⁷ At Annyth, I.G. of Res Ross, port. Hi 175.

B.S.A. avi. p. 114, No. 6; the form here used is remarkable, but the A was certain on both stone and impression.

H. A. OBMEROD. E. S. G. ROBINSON.

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COINS FROM LYCIA AND PAMPHYLIA

[PLATE I]

The following list of coins bought on our journey may be of interest as showing what the currency of the districts must have been. Only Greek coins are here treated; of Roman coins it was noticed that denarii rurely occur earlier than Trajan, after whom they become increasingly common while the copper hardly appears till the second quarter of the third

century.1

Where the coin has already been described in any of the British Moseum Catalogues, the Inventoire de la Collection Waddington, Imboot-Blumer's Monuares precques, Griechische Münzen, Kleinasiatische Münzen, or Zurgriechischen und römischen Münzkunde references are given to those works. Where the coin is a minor variety of one described in any of these works, the reference is preceded by as and followed by the point of difference. When the coin seems to be new or to call for fullar treatment the number is printed in heavy type and a description given at the end. The provenance of each piece is added in brackets, modern names (except such as Makri, Adalia, Elmaly) being as far as possible avoided; for example if a coin was obtained within two or three miles of a classical site the name of the site is given.

But it must be borne in mind that a coin is often bought some way from the place where it was found. There are three classes from whom cans were obtained, (a) money changers and dealers in the larger towns, (β) people moving up and down the main roads, (γ) the peasants themselves. As a rule class (β) buys from (γ) and (α) from both, so that the information is proportionately inexact. In the districts traversed therewere three main roads, Adalia-Istanoz-Elmaly, Phincka-Elmaly and Makri-Elmaly, and the provenance of coins bought upon them is marked accordingly.

(8, 8, A. vvi. p. 185) at Elmaiy,

Referred to as B.M.C., Wald, Inth. s.
Inth. 5, Inth. s, Inth. s, respectively. Occasional

references have been given to Rabelon's Trailedes Monnains and to Mandonall's Catalogue of the Hunterion Collection (Hunter).

Az Kalamaki we came across what looked tike the remains of a board of Roman A. of Gordian III. Tranquillina, Marininas; peaelldy part of the find noted by Woodward of S.A. vel. p. 185) at Emaiy.

^{*} A certain number of coins (marked with an extensia) were purchased on a subsequent journey undertaken by Mr. Ormerod alone to Picidia and Eastern Panuphylia.

THEACE (1).—Hadringopolis, 1 Commodus (Castelloryzo.)

LESHOS.—Methymna. 2: 4th cent. os Hunter 7, but on obv. in countermurk (a) pomegranate; (β) lyre (Adalia). See Pl. I.

Carla, Uncertain. 3: 6th cent. B. Traité, 20 partie, Tom. 1. p. 454, No. 742 (Adalia). Canans. 4: 4th cent. B.M.C. 7 (two specimens Makri and Pinars). Mylasa. 5: 4th cent. B.M.C. 1 (Pinars). Stratonicca. 6: 1st cent. B. Imh., p. 315. No. 80 (Makri). 7: 1st cent. At Wadd. 2558 (Makri). 8: 2nd cent. A.D. B.M.C. 41 (Makri-Elimaly).

Lydia. -9*: Crossus, 6th cent. A. B.M.C. 37 (Akseki).

Phrygia.—Apamen. 10: 2nd-1st cent. B.M.C. 67 (three specimens, Adalia and Phineka-Elmaly). Cibyra. 11: 2nd-1st cent. B.M.C. 17 (Makri). 12: Domitian, as B.M.C. 41, but on obv. in countermark eagle 1 (Makri). 13: Domitian and Domitia, B.M.C. 43 (Makri). 14: Diadamenian, B.M.C. 57 (Makri). 15: Julia Soaemias, B.M.C. 08 (Elmaly). Docimeium, 15a*: 2nd cent. A.D. (Isbarta). Hadrianopolis, 16: Gets, B.M.C. 5 (Adalia). Luccliesa. 17: 2nd cent. A.D. B.M.C. 96 (Adalia). 18: Philip II. B.M.C. 260 (Castelloryzo). Pellac. 19: 2nd cent. Wadd. 6373 (Adalia). 20: Caracalla (Phineka). Sebeste. 21: Augustus, B.M.C. 21 (Adalia). Sibidunda. 22: Maximus Imh.* p. 289, No. 1. (Adalia-Istanoz). 22a: Gordian III. Wadd. 6488 (Elmaly). Synnado. 23: 2nd-3rd cent. A.D. B.M.C. 27 (Side). See Pl. I. 24: Gailienns, as B.M.C. 66, but rev. without cippus and position of animals varied (Adalia).

Lycia — Uncertain. 25: 6th cent. A. Troite, 2° Partie, Tom. I. p. 635, No. 1003° (Castelloryzo). See Pl. I. 26: 6th cent. A. ibid. p. 634. No. 1001° (Makri). See Pl. I. 27: 5th cent. A. (Makri). 28: Teththiceibi. A. as Troite, 2° Partie, Tom. II. p. 259, No. 331, but rev. triskeles to I. See Pl. I. 29: Milhrapata. A. (Phineka). 30: Mithrapata. A. as ibid. p. 315, No. 453, but rev. McOCP (Elmaly). 31: Perioles. A. ibid. p. 330, No. 493 (Adalia). 32: Perioles. R.M.C. 158 (two specimens, Gagas and Kestep). In genere, 33: 2nd cent. A. (Arsada). 34: 2nd cent. (Kestep). 35: 2nd cent. (Xanthus). 36: Claudius. At Imh. p. 21, 2 (Kalamaki). See Pl. I. 37: Imh. p. 23, 10 (Adalia). 38: Claudius. Imh. p. 23, 7 (Castelloryzo).

others of the class, was said to have been found in Nhyrus.

[&]quot; Unless otherwise stated all rates are E and all dates a.c.

Though these coins (with to open of a line) are generally assigned to Carls, they turn up not infractionally in Adalis; and I was told that they generally some from the assignment od of Side.

⁴ Cp. B.M. C. Iones, Phocora 80.

[&]quot; Though bought at Maker this cain, like

^{*} These little brance coins are commonly found all over Lyris proper (Gages and Kester are at opposite ands of the country), thus confirming the rise that Perioles became roler of all Lyria. Small brance coins are not fixed in large numbers outside the territory within which they complete.

Antiphellies, 39; Gerdian III. B.M.C. (Castelloryzo), Ap. . . . 40: (Phellie) Aryoundo. 41: 2nd-1st cent. B.M.C. 1 (Phineka-Elmaly). Bulburn. 42: 2nd cent. B.M.C. 1 (two specimens, Makri-Elmaly and Makri). 43: Calignia, B.M.C. 3 (two specimens, Kestep and Makri). Crayus, 44: 1st cont R (Kalamaki). 45: 1st cent. R as BMC. 15, but rev. above AY below KP [Tlos.] 48: 1st cent. A.D. [Makri-Elmaly). Crugus-Tlos. 47: 1st cent Bc. R. Wudd. 3044 (Makri). Craque-Xanthus 48, 1st cent. A.D. B.M.C. 5 (Antiphellus); see Pl. I. List cent, A.n B.M.C. 28 (Castelloryzo), Cyanene. 49: 2nd cent. R as B.M.C. 1, but without symbol on rev. (Makri) 50: 2nd-1st cent (two specimens, Cyaneau and Castelloryzo). Limyra, 5): 2nd-1st cent. R B.M.C. 4 (Castelloryzo). Masseytes, 52: 2nd cent. R [plated] B.M.C. 3 (Adalia-Istanoz), 53; 2nd-1st cent. B B.M.C. 24 (two specimens, Myra and Kalamaki). 54; 2nd-1st cent: B.M.C. 26 (Castelloryzo). 55: 2nd-1st cent as B.M.C. 26,1 but head on obv. laureate (Makri-Elmaly). See Pl. L. 56: 2nd-1st cent as Hunter II Myra 2 (but rev. symbol star r.)" (Antiphellus). See Pl. I. 57 2nd-1st cent. (Phineka-Elmaly); 1st cent. B.M.C. 28 (Makri-Elmaly). Myric 58: Gordian III. B.M.C. 13 (Myra) Olympus 59: 2nd-1st cent R as B.M.C. I, but rev. sword and shield I torch r. (Makri). Pattern. 60: 2nd-1st cent. B.M.C.2 (Makri). 61; 1st cent. B.M.C.6 (Kalamaki). Pinara, 62, 2nd cent. R.M.C. I (Make). Telmessus, 63, 2nd cent. B.M.C. 1 (Makri-Elmaly), 64: 2nd-1st cent. B.M.C. 2 (three specimens, Makri and Pinara (2)), Thos. 65; 1st cent. Wadd, 3190 (Xanthus). 66: 2nd-1st cent B.M.C. 1 (Phineka-Elmaly) 67 2nd cent. B.M.C. 1 (two specimens, Xanthus and Makri-Elmaly).

Pamenylla.—Aspendus. 68: 4th cent. R as B.M.C. 33, but rov. without letter (Adalia). 69: 4th cent. R as B.M.C. 35, but rov. in countermark helmet. 70: 4th-3rd cent as B.M.C. 71, but obv. eagle r. in countermark (Porge). 71: similar, but letters Mφ (Adalia). 72: similar, but obv. in countermark eagle r. (Aspendus). 73: similar, but rev. letters > Θ (Adalia). 74: similar, but obv. letters obliterated, rev. in countermark eagle r. (Adalia). 75: 4th-3rd cent. B.M.C. Selge 53¹⁰ (Aspendus). 76: 4th-3rd cent. B.M.C. Selge 53¹⁰ (Adalia). 77: 4th-3rd cent. B.M.C. Selge 58¹² (Side). 78: 4th-3rd cent. 1-13 Imh.⁴, p. 123, 2¹³ (Adalia). 79: 3rd-2nd cent. as B.M.C. 74, but rev. AC | ΠεΝ (Adalia). 80: 3rd-2nd cent. Imh.⁴, p. 319, No. 35 (Aspendus). 80a: Hadrian.

affrication to Myra.

^{*} As norkel in Klepert's 1800 Map.

The figure of Apollo on the rev. is radiate, a nature which does not appear on the H.M. specimens.

On the Hunter coin the only letter to be read is M on the rem., but on the present specimen the Y of AY can be read on the oby, and MA on the overse, which distroys the

in These coins are assigned to Seige in the British Museum Catalogue, but, as imbest (Ind., pp. 316-319) has noted, the monograms HO, OO, bring them in line with the contemporary after and troops some of Aspendia

to Catalogued in the British Museum under Schillen Themating.

B.M.C. 79 (Aspendus), 81: Severus Alexander (Adalia). 82: Gordian III. B.M.C. 93 (Adaiia) 83 : Philip II. (Adalia), 84 : Valerian I (Adalia). 85*: Gallienus (Aspendus). Attaleia. 86: 2nd-1st cent. B.M.C. 1 (Adalia). 87: 2nd-1st cent. B.M.C. 2 (Perge). 88: 2nd-1st cont. as B.M.C. 2, lost rev. in field A in place of B (Adalia-Istanez). 89: Claudius, H.M.C. 13 (Adalia) 90: Antoninus Pius, B.M.C. 18 (Adalia) 91: Commodus Caesar as B.M.C. 21, but obv. KOM MOA OC KAIC (Adalia-Istanez). 92* Valerian II, as B.M.C. 27, but rev. OAYMIA can be read on the prize um (Side). See Pl. I. Magydus. 93 Antoniums Pins (Magydus). Perge. 94: 2nd cent. as R.M.C. 10. but obv. in countermark sphins r. (Adaha). 95; 2nd cent. BMC 12 (Adalia-Istanoz) 96: 2nd cent. as B.M.C. 12, but rev. in countermark sing r. (Ehmaly). 97: 2nd-1st cent. B.M.C. 15 (two specimens, Adalia). 98: Trajan (Adalia). 99: Autoninus Pius (Side). 100: Marcus Aurelius (Side). 101: Marcus Aurelius (Adalia): 102: Julia Domna. B.M.C. 35 (Adalia) 103: Commodus ! (Perga) 104: Commodus ! (Side), 105; Geta (Adalia), 106; Elagabalus, as B.M.C. 41, but obv. countermarks (1) eagle with spread wings, r.; (2) 3 (Elmaly). 107 Elagabalus (Adalia). 108: Elagabalus (Elmaly). 109: Elagabalis 14 (Adalia-Istanez), 110: Philip I. B.M.C. 54 (Adalia) Gallienns, B.M.C. 75 (Adalia). Side. 112 : 3rd cent. B.M.C. 59 (Adalia). 113. 3rd cent. as B.M.C. 59, but rev. in field I. A (Perga). 114: 3rd cont. as B.M.C. 59, but smaller denomination '5 in, 48 (Adalia). 115: 2nd-1st cent. B.M.C. 69 (Side) 110 : Domitian, Imh., p. 336, No. 13 (Side). 117: Caracalla (Side) 118: Severus Alexander (Side) 119: Severus Alexander (Adalia). 120: Severus Alexander (Adalia). 121: Philip II. Wadd. 3478 Adalia 122*: Gallienus (Aspendus). 123: Gallianus, as B.M.C. 108, but rev. inscription CIARTON (Side). 124 Salonina, obv. as B.M.C. 126, rev. as B.M.C. 128, but in field l. △ 125 : Valerian II. as B.M.C. 128, but rev. inscription CIAHTON (Side). Sillyum, 126; 1st cent. A.D. Imh., p. 350, No. 3 (Perga) 127 Sept. Severus (Adalia), 128 : Gordian III. Wadd, 3536 (Adalia). 129 Philip II. (Side). 130; Gallienus. Wadd. 3541 (Side). See Pl. L.

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¹¹ Possibly Carnella.

[&]quot;The half of the promiting please !

(Adalia-Istanoz). 142: 1st cent. as B.M.C. 8, but rev. in f. l. KA (Adalia). 143: Trajon Decins. Wadd. 3751 (Antiphellus). Peduclissus. 144*; Salonina (Isbarta). Sagalassus. 145*; Norva, R.M.C. 10. (Isbarta). 146: Commodus 7 (Adalia). 147*; Valerium II. Wand, 3882. (Aspendus). 148*: Claudius II. as B.M.C. 45, but rev. in front of throne humped bull I. (Isbarta). See Pl. I. Selge, 149* 4th sent. Æ Wadd, 3934 (Isbarta). See Pl. I. 149a*; 2nd-1st cent. Æ B.M.C. 37 (Aspendus), 150: 2nd-1st cent. B.M.C. 38 (two specimens, Side). 151: 2nd-1st cent. B.M.C. 47 (Aspendics). 152: 2nd-1st cent. as B.M.C. 47, but rev. in field I. Al inser. CEA FE (Side). 153: 1st cent. A.D. as B.M.C. 67, but rev. above CE, below star (Adalia), 154: L. Verus, B.M.C. 75 (Side), 155; Maximus, B.M.C. 80 (Adalla), Termessus Major. 156: Ist cent. as B.M.C. 1, but rev. above bull crescent (Adalia). 157: 1st cent. B.M.C. 3 (Istanox). 158: 1st cent. as B.M.C. 12, rev. in countermark bee (Tstancz). 150: 1st cent. B.M.C. 23 (Adalia-Istanoz). 160: 1st cent. similar type, but date on rev. obliterated by countermarks (a) spearhead (Adalia) (B) thunderbult (two specimens, Adalia and Adalia-Istanoz), (7) bucramium (Elmaly). 161: 2nd cent. A.D. B.M.C. 26 (Elmaly). 162: 2nd-3rd cent a.D. B.M.C. 29 (Makri-Elmaly), 163: 2nd-3rd cent, a.D. B.M.C. 32 (Adalia-Istanoz), 164; 2nd-3rd cent. A.D. (Adalia-Istanoz), 165: 2nd-3rd cent. a.D. (Adalia). 166: 2nd-3rd cent. a.D. Imh., p. 410; No. 5 (Emedjik). Termessus Minor. 167: 1st cent. B.M.C. 1 (two specimens, Makri). 168; 1st cent. as B.M.C. 4, with countermark bee (three specimens (a) countermark on obv. (Pinara); (3) on res. (Makri-Elmaly); (9) on both sides (Kestep). 169; 1st cent. as B.M.C. 9, obv. in countermark bee (Phineka-Elmaly). Tityowns. 170*: 2nd cent. a.D. B.M.C. 1 (Aspendus). Verbe. 171 *; Commodus. Wadd, 4035 (Isbarta). See Pl. 1 171a; Caracalla, Imh. p. 199, No. 1 (Adalia).

CHLICIA—Aggene. 172*: 2nd cent. as B.M.C. 7, lam. mv. KAI AY | TONOMOY. in field r. AAO. Antioch (Taxans). 173*: 3rd cent. as Imh.*, p. 366, No. 54, but obv. monogram & rev. S and H. (Aspendias). 174. Cestrus. Sabina (Adalia). Syedra. 175: Faustina jun. Imh.*, p. 491, No. 8. 176: Treb. Gallus (Side).

GALATIA.—177: Amyntas as B.M.C. 15, obv. countermarks pruning book and 8 (Antiphellus).

Clappanocita.—Caesarsa. 1781 Hadrian. At R.M.C. 146 (Castelloryzo). 179: Severus Alexander, R.M.C. 308 (Adalia). Tyana. 180: Mareus Aurelius, B.M.C. 7 (Adalia).

^{*} This reverse type, a samiable floot, seems otherwise quite submown at the Pialdian Isinda and the provenance of this specimen suggests that it was easily belong to the Lycian Isinda

which lay a few miles from Antiphellus, though as a rule the imperial somage of Lycus is conlined to the religion of Gordian III. No other come are known of this city.

Syria — Authorh. 181: 1st cent. A.D. B.M.C. 91 (Antiphellus). 182: Antiochus III. B.M.C. 55 (Pinara)

Phoenicia.—Sidon. 183: 1st cent. B.M.C. 134 (Kestep).

ALEXANDRIA.—184: Hadrian, as B.M.C. 426, but head I. (Adalia).

UNCERTAIN.-185: Roman Colonial 1st cent. (Elmaly).

The following coins I have thought worthy of fuller description, as they have not yet found their way into any of the standard works cited above. The measurements are in inches.

 Hadrianopolis (Thracinet) Obn MAYPKAIANTKOMMOΔ , Bare bust, r. laur. Rev. ΑΔΡΙΑΝΟΠΟΛΕΙΤΩΝ. Tyche L. Æ 75.

The absence of CCB or of a magistrate's name (though neither of these is decisive) and the fabric would place this coin among those attributed to Hadrianopolis Thraciae. But the provenance suggests that it, with others of the same class (e.g. B.M.C. 4 with the characteristic Asiatic type of Apollo shooting), may really belong to the other Hadrianopolis in Phrygia.

- 15 bis. Docimerum. Obv. ΔΟΚΙΜΟΟ. Head of youthful hero r. Rev. ΔΟΚΙΜΕΩΝ ΜΑΚΕΔΟΝΩΝ, in exergue TEPEIC. Cybels turreted standing to front holding in r. phiale, in l. tympanum, behind her on either side rise two peaks (Mt. Persis). Æ 1.3. See Pt I.
- Peltae. Obst. as B.M.C. 26 (Carnealla). Rev. as B.M.C. 24 (Severus);
 but without ToB after APXIOYNIOY. Æ 8.

Coins of Junius' first archonship seem to be unknown.23

 Lycia. Obv. Forspart of boar, r. Rev. Tortoise in dotted square; all in incuse square. Al 35, wt. 10 grs. See Pl. I.

This completes the series, the stater, tetrobol and diobol of the same types being already known (Traité, 2 mm Partie, Tom. II. pp. 185-6.)

- 29. Mithraputa. Ohr. Astragalus. Rev. M&X Triskeles, in f. l. holmet. R 5, wt. 105 grs.
- 33. Lycia in genere. [Rhodes]. Obv. Facing head of Helios radiate; across the face in countermark chimaera r. Rev. Rose almost obliterated. R 55, wt. 30.5 grs.
- 24. Obv. Head of Heraeles bearded facing. Rev. AYKLON Chimacra r. E 55. See Pl. I.

For No. 33 ep. B.M.C. Rhodes, No. 203,19 a coin of the class on which the letters PO are wanting; whether this is so on the present

¹⁰ B.M.C. Phrygia, Introd. Icarvill.

⁴⁴ Where the chimages is described as a liou.

coin cannot be determined. The class to which E.M.C. 203 belongs is supposed to have been struck for Rhodian possessions on the mainland and the countermark would give some ground for assigning it more definitely to Lycia beneath Rhodian rule (188-168 n.c.) This is confirmed by the fact that the coin bears the name IAΣΩN which is characteristically Lycian. No 34½ bears the chimaera as its reverse type, that the obverse type shows a facing head and that the ethnic is AYKIΩN without mention of the later monetary districts would put it at the beginning of the series a date which the style confirms, and it may be suggested that these copper comes with the countermarked Rhodian silver formed the earliest currency of Lycia after the liberation of the country in a.c. 168.

35. Ohr. Head of Artemis (!) facing, over r. shoulder how and quiver Rev. ΑΥΚΙΩΝ Apollo standing to front holding bow (!) in L. Æ 4.

This cain belongs to the series 1-4 on p. 38 of B.M.C. Lycia, but the reverse type is new. The obverse seems to be the same as that of B.M.C. ib. No. 1, there described as an Apollo. The facing head type and the unqualified ethnic would put this series in line with Nos. 33, 34 above.

40. Ap. . . Obv. Head of Apollo r. diademed, hair in formal curls. Rev. AYKIΩN. Bust of Artemis r. with quiver at shoulder to 1 and r. A Π all in incuse square. Æ 55. See Pl. I.

As both Apollonia and Aperlan are equally near to the place where the coin was found no attribution can be based on provenance, but Aperlae is to be preferred as being the more important town.

- 44. Cragus. Obv. AY. Head of Apollo r. laur. hair in formal carls. Rev. AYKLΩN below, KPAFOC to r. up. Lyre, in f. I car of barley, all in shallow incuse square. At (broken) 55, wt. 20 grs. See Pl I
- 4d Crayus, as B.M.C. Dim-Cragus 1; but on obe ΕΠ instead of Δ1.²⁰ .E. 75. See Pl. I.

These two come are too close to each other not to come from the same mint, if so EII and Δt must both be magistrates and B.M.C. Dias-Cragus I should be assigned to Cragus. There are no other coins of Dias, and the town itself is only known to us from a reference in Stephanus (a.e.), which does not specify even whether it lay in the Cragus district.

Already published by Babelon, R.N. 1898, Pt. IX. No. 12, where the oby, is described as a head of Relian. Another example which I have in the possession of M. Diamantaras of Castelloryra shows the bearded head even more aleasy than the cole here published. The type seems to be suggested by the alives of Solga. R.M.C. 35.

For the symbol (mailed or plestrum il in the surgest of ror., up R.M.C. Pl. XLIII. a (Manicytes Augustus). Then two bronze corns would belong to the same period.

Magistrates, though rare, are not unknown in Lyrin, op. IIIIIOAO in the Maniester district, B.M.C. 28.

- Cyanour. Ohn Head of Apollo r. Rec. above AYKIΩN below KY bow and quiver in saltire. Æ 4.
- Massicytes. Obe. Head of Apollo r. laur. dotted border. Rev. Above 1970, below MA, bow and quiver in saltire, all in incuse square. E 65.

For this magistrate w. B.M.C. 28 (with different types).

- 81. Aspendus. Obe. AYKMAYPCCOY AAE JANΔPOCCER. Bust r. hunin paladamentum, etc. Rev. [AC]ΠΕΝΔΙΩΝ. Tyche of City, scated L on rocks with riverged at her less. Æ 95.
- 83. Obv. MA 10Y CEOYHP ΦΙΛΙΠΠΟΝ ΚΑΙC. Bareheaded bust r. in paludamentum, etc. Rev. ACHENAION. Pallus (†) standing L in helmet (!) and long chiton, holding palm in L and dropping public into urn with r. Æ 1-2.
- 84. Ohe, as B.M.C. 98 (Valerian I.). Rev. ACΠ€ΝΔΙΩΝ. Hephaestus scated r. on rock, L supports shield on knew, r. holds hammer. Æ 13. The same reverse type occurs at Perge (B.M.C. 62).
- 85. Ohr. AYTKAIΠOAICAAAIHNOCCEB. Bust r. laur, in paludamentum, in front H. Rev. ACΠΕΝΔΙΩΝ. Wroath within which CE MNHC KAI EN TIMOY T. O.A. Æ I-1. See Pl. I.

T ∘ Δ on the reverse is obviously a date and must refer to the local θέμες cp. ΘΕΜΙΔΟ(ΤΞΘ, ΤΟΒ, ΤΟΕ. ≡ The stop on either side of the T (cach quite certain) confirms Head's suggestion ≡ that T is an abbreviation for T∘ while the two last letters contain the date. ΘΕΜΙΔΟC then must be understood with T ∘ Δ and the year on Domaszewski's reckoning would be 256.

- 93. Maggdas. Obv. Head of Antoninus Pins, r. without inscription. Res. MAFYA. Hermes standing to front holding purse in r. and in l. wrapped in chlamys, caducous. Æ 85.
- Perger. TPAIANOC KAICAP, Bust r. laur. Rev. APT ΠΕΡ simularum of Artemis in distyle Ionic temple. Æ 6.
- 99. Obv. as R.M.C. 28 (Antoninus Pins). Rev. as hast, but inscription ΠΕΡΓΑ[ΙΩΝ]. Æ 6.
- 100, Obv. as R.M.C. 29 (Marcus Aurelius). Rev. as last. Æ '55c
- Obv. as B.M.C. 29. Rev. as last, but on either side ophinx on podestal, in pediment engle E 14.

B.M.C. Introd. Irais.
B.M.C. Introd. Irais.
Phil. and Domazowski, Fedura der Pamphylle-ben Studte (Nurs. Zeit., 1913, p. 1).

The wrokin which encircles the inextition has doubtless an agonistic agnificance.

- 103. Obc. ANTΩ Bust of Commodus(!) r. baur, in paludamentum, etc. Rev. ΠΕΡΓ Turreted veiled bust of City, r. Æ 8.
- 104. Obv. AYT ANTON, as last. Rev. HEPFAION Nike going ! A. 5.
- 105. Ohr. ACKCEB. Bare head bust of Geta r. in paladamentum, etc. Rev. ΠΕΡΓΑΙΩΝ. Apollo standing L over I, which rests on tripod clock; in r. outstretched branch. Æ 7.
- 107. Obv. as B.M.C. 41 (Elagabalus), with two uncertain countermarks. Rev. ΠΕΡΓΑΙΩΝ. Draped female figure wearing modius, scated 1, on throne: facing her stands r. a similar figure, behind whom stands humped bull r. Æ 1.
- 108. Obv. as last countermarks (a) eagle with spread wings r.; (β) AP (7) Rev. ΠΕΡΓΑΙΩΝ Tyche. I. Æ 1.
- 109. Obv. ANTΩ. Bust of Elagabalus (1) ** radiate τ. Rev. ΠΕΡΓΑΙΩΝ. River-god reclining L on urn. Ε 95.
- 117. Side. Ohe. [AY]KMAYCEOANTΩNEIN. Bust of Camealla r. laur. in palminmentum, stc. Rev. [NAYAP]XIC (f) round. Galloy with vexillum at stern, in full sail right, on the sails ΣΙΔΗ ΤΩΝ. Æ 9. See Pl. I.

If the reading NAYAPXIC be correct, and it is supported by the type (cf. B.M.C. 113), it would show the existence of a naval station at Side as early as Caracalla, a fact only proved previously for the raign of Gallienus.

- 118. Obe. MACEDYHAACZANAPQ. Barcheaded boyish bust r. in paindamentum, etc. Rev. CIΔΗΤΩΝ. Agonistic crown from which rise two palma. Æ 75.
- 110 Obe. MAYAA[E]ZANΔP ps last, in countermark B. Rec., CIΔHTΩN. Athena helmeted, standing L holds in L palm branch and drops with a pebble into arm. Æ 105.
- 120 Obe: ΛΕΞΑΝΔ. Bust of Alexander with slight heard laur. τ. in paludamentum, etc. Rev. CIΔΗΤΩΝ. The Graces, linked the two outer holding in I, and τ. respectively are and one handled jug. Æ 105. See Pi I.

Cp. Linh. Nymphen and Chariten, p. 203, No. 15 (Makrimus), where the objects hold are a crown and flower.

[&]quot; Possibly Caramilla.

²⁰ Victim Tournous in Recus Belge do Numannatique, 1919, pp. 415 a-qq.

- 122 Ohe, as B.M.C. 10. Rev. Tyche of City sented I, on rocks, beneath pomegranate. Æ 125.
- 127. Sillyum. Ohr. ACECEOYH POCHEP. Bust r. laur. in paladamentum, etc. Rev. CIAAYEΩN. Goddess? standing r. in veil and long chiton, holding with both hands shrine with pediment. Æ 8.
- 129. Ohe. AY K M 10 Y CEOY ΦΙΛΙΠΠΟΝ CE. Bust of Philip II. r. laur. Rev. CIΛΛΥΕΩΝ. Men standing r. with sceptre and pine cone, his r. foot on bull's head. Æ 85.
- 131. Adada. Ohv. ΑΥΚΑΙΜΑΥΑΝΤΓΟΡΔΙΑΝ. Busn r. laur. in paludamentum, etc. Rev. ΑΔΑΔΕ[ΩΝ]. Tyche i. & 9.
- 138. Element. Ohn. C€YHΦΙΛΙΠΠΟΝΚΑΙCAP. Burcheaded bust r. in paludamentum, etc. in countermark B. Rev. €T€NN€ΩN. Dionysms (1) standing to front, with I hand raised to his head and r. hanging, at his feet panther (1) I. R. U.
- 144 Pednelissus. Obe, KOP CAAΩNINAN Bust r. with stephane and crescent between shoulders. Rev. ΠεΔΝΗΛΙΣζεΩΝ. Zeus holding eagle and scentre, seated L on throne. Æ 85.
- 146. Sagalassus. Obv. K≎ANTΩNEI. Bust of Commodus r. laur. in paludamentum, etc. Rev. ACCEΩN. Warrior standing to front l. rests on spear, in r. patera. AC 5.
- 164. Termessus Major. Obv. Bust of Artemis r. wearing crescent between shoulders. Rev. Nike I, T€P. Æ 55.
- 165. Obv. [ΤΕ]PMHCCEΩN. Bust of Zeus r. haur. Rev. [ΤΩΝ ΜΕΙΖ] ONΩN. Nike standing l., in | palm, with r. crowns female figure who stands to front holding cornucopiae in l. Æ 1/2. See Pl. I.
- 174 Cestrus. Ohn: CEBACTH CABEINA. Bust r. with stephane. Res. KECTPHNON. Six-rayed star within horns of crescent. Æ S. See Pl. I.

There is a coin of Lucilla with the same rev. types published by Svoronos from the Mavromichaelis Collection (Journ. Internat. vi. p. 252, No. 712). The coin in the British Museum of Antoninos Pias is false, and recognized by M. Hadji Nicolas as the product of an Armenian forger of Adalia.

176. Syedra. Obe. AYTOKPAKAICAPOYTPEBΓΑΛΛΟΝ. Bust r. laur. in paludamentum. Rev. CYEΔPE, in exergue ΩN. Hades carrying off Persephone in quadriga galloping r. Æ 1-3.

[&]quot; For this type ep. B.M.C. No. 11, but the animal bears little resemblance to a punither.

185. Uncertain Roman Colonial, Obe, M-RVTILVS-PROCOS-COLIVL--Portrait head r. Rev. above -- FERIDIVS. Ockist ploughing with
yoke of humped oxen 1. E 7 See Pt. I.

This specimen has been already published by Imbool, Rever Suisse, 1913, p. 115, No. 302. From his coin the words HVIREXDD may be made out in the exergue of the reverse and what is probably A in front of the F. Of the missing letters of the obverse, the first seems to have been square (e.g. B. D. E or L), while the third was possibly an N. Rutilits is otherwise unknown. Imbool suggests Sinope, Apamea, or Parium as the mint, but though the piece certainly belongs to Asia Minor, the provenance of this specimen and the humped bull of the reverse suggest the South-West: The humped bull is never found in Europe, and not universally distributed in Asia Minor, cocurring rarely in the North, but generally in Caria, Lyem, Pisidia and Lyeaonia. Possibly the coin is to be attributed to one of the Pisidian colonies.

E. S. G. ROBINSON.

Reflet, Tiere des Eline, ellicrisms, p. 80.
 Cp. the colonial, also of Purlate, Lystia,
 Once in a colo of Cymrus, and on a reflet and Iconium;
 at Leaber

A BRONZE STATUETTE IN THE BRITISH MUSEUM AND THE 'ARISTOTLE' OF THE PALAZZO SPADA.

[PLATES IL-VIL]

Among the most important bronzes in the British Museum is the statuette of a philosopher, said to have been found in drudging the harbour at Brindisi, which was acquired in 1865 (Pl II.). It measures 20 inches (508 cm.) in height, and represents a bearded man scated—though the original seat has disappeared—and reating his chin on his right hand, his left arm, muffled in his only garment, the himation that passes over his left shoulder, lies across his lap and supports the right arm; the right foot is drawn back behind the left, and he wears sundals elaborately tied. The thoughtful and interesting head (Pl III.) suggests in type and period the pleasanter portraits of Acschines and the newly discovered Aristotle; hair and beard are cut close; the features are small and well shaped, the whole affect in singular harmony with the reflective pose of the figure. The surface has suffered from the action of water, and there is a large hole on the left shoulder, and a crack running down the arm.

The statuette is compared by Michaelis one of the very few writers to mention it, with the seated Demosthenes of Petworth, a portrait statue of Attin origin to which a head of the orator has been wrongly affixed; but though the composition is similar, the statue lacks the distinctive feature of the bronze, the hand wrapped in the himation and laid across the lap. A much closer parallel is to be found in one of the figures, that seated in front of the sundial, on the famous mosaic discovered some years ago at Pompen, representing an assembly of philosophers or learned men, which is a variant of that in the Villa Albani from Sarama in Umbria; in the latter, however, the distinctive left arm is placed in a different position, and it is obviously unsafe to generalise when the only known copies of a composition differ in an important point. Again, in the matter of dress the parallel is not exact.

R.M. Catalogue of Browns, No. 348; Michaelis, Ascient Marbles in Great Britain, p. 698; Escal, Brit minth al. vol. ii. p. 365, Fig. 12, a poor cut which is as far the only published Bluetration of the figure.

² The figure is not bearilless, as stated in the

^{*}Wrongly, because the type of the seated orator is without authority: Bernoulli, Or. From H. pp. 78-9; Studniczka, das Hildais des Aratheles, p. 7.

^{*} Monnou. of Linesi, 1898, Pf. XII.: Bermonilli, Gr. Ikon, II. pp. 36-37.; Halbig Führer, J. II. p. 46, and reformed.

as the figure on the mesaic wears a tunic and so can hardly represent a truly Greek conception of the head of a philosophic school; the coincidence of pose is worth noting, but there can be no question of a community of subject between the mesaic and the brunze. It is, however, not a little strange that the relation of the latter to a group of other works which includes three replicas on a small but varying scale and one life-size and world-famous statue, should have escaped notice, but this is partly due, no doubt, to the fact that not one of these replicas has the original head. In the combination of these with the British Museum bronze has the solution of one of the famous enigness of ancient art. The replicas are as follows:—

(a) Bronze statuette in the British Museum. (The literature of this work is very scanty; the available references have been already given.)

(b) Statuette in the Galleria dei Candelabri of the Votican, Pl. V., 'two palms high (Walcker), often called Sophocles on the strength of the restored head; restored are also the bare feet, the right arm, the supports of the seat, and the plinth, and the figure struck me when I examined it in October, 1912, as having been worked over or at least much paished (Clarac, Pl. 840, No. 2132, 'Rome, Coll. Chablais'; Pistolesi vi. Pl. 29; Monuments Amarutazianis 30; Welcker, A.D. i. p. 460; Helbig, Führer? No. 370, umitted in Helbig?; Reimach, Reportoire i. p. 513.)

(c) Statuette in the Museo Barracco, Pl. VI., 201 in. (515 m.) in height, unrestored; head and right hand missing, but the original seat with its curved and reeded legs preserved intact; on the seat is a cushion, treated with extreme realism, as are the forms of the lean and wrinkled body and the drapery, which is bolder and looser than in the other replicas; sandals chaborately tied, differing slightly in the details of the knot from those of (a) (*Vienx savant, *Collection Burracco, Pl. LXIV., *formerly in the collection.

of the antiquary Scalambrini.")

(d) Statuette formerly in Dresden (Fig. 1), 'anderthalb Ellen hoch' (Welcker), wrongly restored with the head of Europides; the bare feet and right arm holding a scroll are clearly restorations; as to the sent, it is impossible to judge from the shaded drawing by which alone we know the work. (Le Plat, Recueil des Markess Antiques, Pl. HL. Chrae, Pl. 841, No. 2093 D. after Le Plat; Welcker, A.D. i. p. 487; the latter, writing in 1867, notes that the statuette was emitted from contemporary guide-books; it has not since reappeared.)

To sum up, (o) gives us the original head, but the surface of the bronze has suffered, as much in the head as elsewhere, and it cannot be relied on for minute details; (b) and (c) give us the form of the seat, a stool—a cushion worked with remarkable realism is added in the Barracco example—with delicately curved and receded legs, and (c) is also noteworthy for the extreme care with which the wrinkled skin about the breast and armpits is remiered, showing that the subject was an elderly man, and that the type is post-Lysippic. This is confirmed by the type of head in (a), which finds

^{* (}b) is a relatively poor upo, and has apparently been worked over 1st) cannot be judged of by the contaving

its nearest analogies in portraits of the beginning of the Hellenistic age, to

which we may safely assign the original.

Before turning to the life-suzed variant already referred to, let un consider the head of (a) and see whether it may be assigned on internal evidence to any philosophus school. The type of the scated orator being unknown (supra, note 3) it may indeed be usked why the portrait may



Pos. 1. STATUTE FOR STREET IN DRIBBER.

not be taken for that of a poet writer, or man of science (1) Is cannot represent a port as a portrait of an earlier poet would not be represented without a filler to this rule Euripides is the one unexplained exception), and poets of the beginning of the Hallenistic age followed the histion and were clean-shaven. (2) A writer would certainly be represented holding a scroll, or with a wrinium by his sale, and there is no trace of BS-vol XXXIV.

either in any of the replicas. (3) A man of science would similarly be distinguished by an attribute, as Pythagaras is by his staff and globe, Reracleitus by his club, Amaxagaras again by his globe, and the later portraits of physicians and men of science by scrolls, staves, or other attributes. Thus, though the head might suit a poet, orator, writer, or man of science, the figure as a whole would not, and the same applies to the one other class to which the head taken alone might belong that of the Seven Sages: they are indeed only known to us among fourth century types by heads, not statues, but it is inconceivable that the originals should not have been in some way identified by attributes. There remains only the large class of philosophic portraits among which to seek analogies for our statuette and its replicas. The early Anademicians, to judge from the well-known portrait of Plato and the passage of Ephippus preserved by Atheraeus (xi. 500).

Εδ μεν μαχαίρο ξύστ' έχωι τριχώματα, εδ δ' ὑποκαθιείς άτομα πώγουυς Βάθη,

were their hair close-cut and their beards long." The Cyrenaics, those dandies of philosophy, have been thus far represented in art only by the glass pasts of Aristippus, the antiquity of which is more than suspected; ? even the portrait on which the gem is based is of very doubtful authenticity and both must be rejected as evidence. (See the Note at the end of this paper.) It is however, highly probable that the Cyrenaics, worldliest of philosophic bodies, would at all times follow the fashion as closely as philosophers could, and that philosophic fashion set in favour of the closecut beard and hair at the beginning of the Hellenistic ago we have the portraits of Aristotle and Theophrastus to prove. The Cymics on the other hand were from the first notorious for dirt and neglect; the busts of their founder Antisthenes, with the wild beard and hair for which Austippus haughed at him (Suid. & Aplater soc) hear out what Lucian makes Pan say of the later Cypies (Ris uccus 11) that some people are always trying to imitate his shaggy board, and one replica that in the Villa Pamfili, is netually called Pan.8 Elsowhere also, notably in the Conicus, Laman describes the habits of the school in no measured terms," while similar passages may be found in Athenaeus 10 and in the letters of the pseudo-Aleiphrone Of the early Stones we know Zene (from basts) and Chrysrppus (from come and possibly sculpture also); both have long beards and shortish hair, while the later Stoic Posidonius, the personal friend of Marius.

The would of the X- Anderry, to judge from the portrait of Cure also, followed the later philosophic hadden of avering a classical heard.

It appears to be insured on the correction published in Gallanas Illustrate American multiple about the about the portrait given by Pirro Ligoria and after him by Gremovies (The it p. 14), both of whell are one best. Of the letter Grompylin.

justly area (to on) and create applice magic arts poster ingenie one of species forms, of summers one oftens Philosophian atomic Zandiso reposition.

^{*} Mata-Duling Ant. Buldet. 3258

^{*} Communities, 12-14; Createst passing was,

^{10 214.} j. 541, h-f.

ii Spielelegraphi fir. in. 40, ad. Indoc.

Cicaro, and Pompey, wears close-cat hair and beard. Of the Roman Stoics, Horace's intonsus proves that Coto the Censor wore a beard—not only, we may guess, as a philosopher, but as an ancient Roman living in degenerate days; Seneca—if the head at Berlin be Seneca, which is not absolutely certain—did not the courtier apparently predominating over the philosopher. Fashion and philosophy units in the partraits of Lucius Junius Rustieus and his pupil Marcus Aurelius, the latest Stoic portraits we possess. Zeno and Chrysippus are therefore the only members of the Stoic school whose portraits can, from their date, be used in our present enquiry; both wear long beards therefore our statuette does not represent a Stoic, any more than it can represent a Cynic or Academician.

Is the portrait that of a Periputetic! The correspondence, both in character and treatment, between the head of the statuette and the Studniczke Aristotle and his successor Theophrastus is so close that one is tempted to answer in the affirmative; judging only from probabilities we have seen that it may represent a Cyronaic, but in the case of the Periputetics we can judge from actual monuments, and say, This may well be a disciple of Aristotle. It is not a little curious, moreover, that the name of Aristotle should for centuries have been applied to the one life-sized figure which is related to our bronze, the inscribed statue in the Palazzo Spada (PL VIII.).

This famous work " represents a philosopher seated on a stool, the sides of which are roughly blocked out into steps, his right foot drawn back. his left advanced, he hans his head on his right hand, and his left, wrapped in the himation which passes over his left shoulder, lies in his lap. The right arm-absurdly muscular considering the wrinkled forms of the bodythe whole of the left leg and the himation from the middle of the thigh, and the head and neck are restorations; the head, a fine and characteristic portrait of the close of the first century &C. was only added after 1562, since the work as mentioned as headless by Aldrovandi in the adition of his Status Autiche for that year, as wall as in the earlier aditions of 1556 and 1557. It will be seen that the pesc of the figure closely corresponds with that of the statuettes, but there are one or two points of difference. The right leg of the statue is not disengaged from the stool, and the sandalled foot rests on the first step, not like the left, on the basis of the statue; in the statuettes the left foot is drawn back and place- just behind the right, and both are completely in the round. The himation, which is altogether simple in treatment comes some-

The west literature of the aratice will be found in Halbigs (1913, p. 2011); the principal matter references are given here. It is worth noting by the way, that (Barne treat have that reading APIETHTEAHE, as he simply terms the status Philosophes (PR, \$43, \$48, which vary as to the heality of the work.) Further, as 19 Synthesis is depicted by the anti-

quary turnings del Pezzo, and later by the including Gambe Varia, who executed a modal bearing a spaxe-of copy of the maintel head with that inverpolan, an example of which, in the British Museum, it subtreed to in the N to at the end of this paper.

The while of the left leg is a resociation, but the shape of the fine shows that it is

what nearer the right shoulder than in the statuettes and the right arm does not, as in them, support the left, the muffled arm lying instead across the lap; the sandals are of peculiar form, high behind and low across the front and ankies. The realism with which the wrinkled neck and breast are treated forms a curious contrast with the want of finish visible not only in the attachment of the right leg to the stool but still more in the way in which the lims of the thigh are not detached from the seat, to which the figure appears to be attached as closely as an archair Ionian statue. If this treatment is compared with the easy pase of the Barmero statuette upon its enshien, or with such a work as the relief of the scated Menander in the Lateran, it will hardly be doubted. I think, that the copy though of Greek norkmanship, belongs to the first rather than the second century are, and is not a work of the first order, in spite of its undoubted merits.

As to the inscription, the reading APIETO TEAR E, once universally accepted, was dethroned by Dr. Studmezka in the Rimische Mittellungen 1890, pp. 12 sequ., cf. the same author's Bildinia des Aristoleles, Pl. I; and text), who pointed out that the pre-imperial character of the inscription excluded the possibility of such a restoration since the beginning of the first lost letter, with its upright havite, would imply the square form of the n, which is later than the inscription; there is moreover, grave doubt whether there Is room for five letters between the T and the final &. Another early suggestion, APISTETIANS, is also impossible, as the only available Aristides would be the statesman, who as all writers agree would never be represented in uncient art in a pose and dress suitable to a philosopher or man of science. There remains Dr. Studniczka's reading APISTI (ANO IS, which completely satisfies the opigraphical ovidence, and is unhesitatingly accepted by Dr. Helbig, and by Dr. Bernoulli 2 and Dr. Arndy 14 with the reservation that difficulties do exist. The first of these is that no traces of the beard appear on the breast of the statue, whereas a philosopher should by all amilogies have been bearded; that such traces have not disappeared under modern polishing is proved by the fact that the statue was restored with a boundless head. To this the British Museum statuette affords a complete and satisfactory answer: the heard, like these of Aristotle and Theophrastus, was cut close. The second difficulty proposed by Dr. Studniczka and repeated by Dr. Bernoulli, is this that the realism of the weinkled flesh points to a later date than that of Aristippus, who died about 360 a.c., and to a person living in meaner surroundings (ome in durfugerer Sphare lobende Possonlichkeit). Dr. Helbig, however, calls these chronological difficulties triding, and points out that to evade them by assuming as has been proposed, that the statue represents the younger Aristippus, called in antiquity Marpocicarror, is unsatisfactory, as the latter was a comparatively insignificant person. It is susy on the other hand, to suppose a famous starns of the founder of the Hedon'st philosophy erected some time after his death, - that the chronological difficulty counts for no more than in the

case of the Demosthenes of Polycactus, set up in 280, or the Sophacles and Europides of Lyenrgus, set up in 342 to take two famous and obvious examples. As to Dr. Bernoulli's argument from the leanness and wrinkles of the torse, and its consequent mappropriateness to the famous Aristropus. there is no proof that the apostio of pleasure may not have grown lean in his old age or have been represented as lean by the artist. Moreover, we know that Aristippus when young devoted hunself to the doctrines of Socrates with such passion that he graw emacrated pale and thin, it which is at least presimption that he would not grow over fat in his later years. He certainly fixed to be old, since he came to Athens to see Secretos " and remained with him as a disciple to his death in 390, though absent from the last seems in Aggina, as Plato muliciously notes; it that he took disciples of his own in his master's lifetime we know because he is said to have charged them a for for his tunching, which sophistical proceeding deeply offended Socrates." He cannot therefore have been less than thirty at his muster's death, and was probably much nearer farty, and at his death in or about 360 he must have been seventy at least,

It is satisfactory to add that, as the life-sized torse of Aristippus in the Palazzo Speda embles us to identify the British Museum statuetts so the latter in its turn furnishes the means of identifying as a portrait of Aristippus a splendid life-sized head of Greek murble in the Uffizi in (P. IV.) which the present writer, with youthful rashness, formerly identified as Denietrius of Phalerium. (L.H.S. 1904, pp. 93-97 and Pl. III., here reprinted.) Some of the arguments used in that paper apply with equal nace to Aristippus, and are therefore summarized here. (1) The head is bearied and dates from the close of the fourth century, therefore though its character is rather that of the man of the world, it must represent a philosopher. (2) The closest parallels among identified philosophic partraits are offered by the heads of Aristotle and Theophrastus, the head therefore represents a member of a courtly rather than an ascetic sect. (3) The portrait belongs to the school of Lysippus. As to the last point, I find myself in agreement with Dr Arnet, who sees in it skopasisches Pathos aber make testpoisehe Formen rather than Dr. Ameling, who identifies it as a work of the second Attic school; as we have seen above, the body to which the head belongs is already recognised as not earlier than Lysippus.

I must confess that the likeness between this head and the 'Isocrates' of Achilles Statius (Infustrium, Viron at exatant in urbs expressi vultus

analogy to our points; is suid to exist in this head of the parallel toutler which is majoreally ascribed to the parallel toutle which is to the hand, of Lympus Restorations shown, nork, parts of the board outer time of the error, and tip of the ore. The head struck me, when I examined it to years ago, as the finest Greek made personic in Physics.

¹⁴ Plats of spiritual 2.

Pint. - ra

¹⁰ Florid, 20 ti.

[&]quot; D.T. H S. 65.

Dissolites, that EULes a Orrelation, No. 122, Vol. III. p. 259; Amelian Paints should see Annies in Planter, No. 128; Annie Brandmann, Gr. 128, Park, 311-2, Cl. E. P. text to No. 133-4, in which the secret

Romas, 1569. Formis Antonir Lafreri) which is noted by Dütschke (Ann., p. 259) is to my eyes extramely slight; but that the same writer was right in considering the head that of an elderly man I have now no doubt whatever. He also states a fact noted apparently by no other writer, that the Florentine head bere the name of Alcihiades, given to it, one may guess, from its likeness to the gem (Fig. 2) published by Faber and reproduced by Visconti (Icva. Gr. I, 16, 3), from whom our cut is taken. I was not aware that the name of Alcihiades had been applied to the Florentine head when in J.H.S. 1904, p. 95, I drew attention to the fact that head and gem represent the same purson; that it is so a comparison of Pl. IV, with Fig. 2 will at once make



Pic 2 - Anteririty (Pinns & Gens.

clear. The gem was apparently in existence in 1873, when M. Housaupereceived a cast of it from Daly (*Gazette des Revox Arts*, 1873, p. 477), but its present whoreabouts are unknown; it will be seen that the drapary corresponds with that worn by Aristippus in the statues, as does also that of the restored herm on which the Florentine head is now placed, and as there is nothing in the gem as we know it from the reproductions to arouse suspicion, we may provisionally consider it as a third example of the portrait of Aristippus.

But a more serious question is this; would Aristippes, of whose luxurious and effeminate dress we hear so much from the tradition mongers, be represented in the simple cloak of the philosopher! Even if we had no proofs, we might answer that a disciple of Scerates, who always were this

garment, wand the head of a philosophical school would certainly be so represented in an official statue, even if he 'breathed sciours' (Luc. Dict. Mort. 205) in ordinary life; that Aristippus did actually wear this dress we know from Plutarch, and from the famous story given by Suidas and Stohasus, which relates how Dionysius persuaded Aristippus to put off his raißer and to put on a purple robe and dance, whereupon Plate represented him with a quotation from the Bacchae,

ούκ αν δυναίμην θήλων ένδθναι στολήν,

to which Aristippus replied with another quotation from the same play,

και γάρ ἐν βακχεύμασιν αδο' ή γε σώφρων οῦ διαφθαρήσηεται:

The only works of art to throw light on this matter of philosophic dress are the statuss of philosophics in our museums and private collections, most of which wear the voices; but of these only two can with any safety be identified, the Chrysippus digitis computants of the Louvre, and the branze Hermarchus of New York; both represent the head of a philosophic school in his official dress, though one is standing and the other sitting; the former, whose head is unfortunately missing, hardly falls short of our Axistippus in its realistic readering of the forms of age.

The statue in the Palazzo Spada corresponds then exactly with what we should expect from the literary evidence as to his dress and appearance and with the available monumental evidence as to the way in which the head of a philosophic school was represented in art, but it is now recognised as only a copy though a Greek copy, of an earlier original which must have belonged to the early Hellemistic period; the drapery is treated with comparative simplicity, the flesh with much realism, and both are earlier in style than the analogous statuette in the Barracco collection, although this latter is probably earlier in date than the Spada statue, which though a copy of an earlier original belongs to only the end of the second or beginning of the first century a.c.

What is the relation between the statue and the statuettes. In the first we have a figure leaning forward, his chin in his right hand, his elbow resting on the right thigh, while his left hand, wrapped in his himation lies across his lap; the head turned sharply to the left, one of the sandalled feet is drawn back, the other advanced. In the statuettes we have a man sitting almost opright, his right elbow resting on his left arm, which lies across his

W Spung. 210 h ; Pythop. 335 m;

^{*} de feet, of red. Aber.) *. Dogmer lawrion were uses the contemptance word blow of his diese in one passage (b. \$, 47).

¹⁴ N. Asserterent.

A. S. Wilhins on Honors, Fp. I. crol. 30. The question is given and a different corrumation by Athenseum (244 c). The text of all three is

Hillberentz

⁴ For Historica - Pernoulli H. p. 158.

of Bulleys of the Metopolitics Morning of stea 12(1), p. 130; Delictick, one, Perio Fl. 20. Peaks of the period, is may be noted, wear on underdress, as the Positifppers and Metabolics of the Vettern and the Menonder modulion, and relief of Marlong and the Lateren.

hap wrapped in the himation; his samialled feet are crossed in front of him. The differences between them are simply caused by the variation in the position of the left arm; because it does not support the right arm, this has to rest on the thigh, with the result that the figure leans forward, and draws back his right foot to give additional support to the arm; whereas in the anature the support given to the right arm by the less makes the aprightness of the figure and the crossing of the feet in front a position both natural and comfortable as an attempt to realise either posture will at once show, Against these differences must be set the undoubted fact of the general resemblance of the two types, the lean philosopher in his simple dress resting his head in his hand, the aburp turn of the head to the left, and still more the feature pseuliar to the statue and statuettes alone among the dozens of seated figures that have come down to us, the left hand lying across the lap completely emposed in the himstion. We can inter from literary evidence that the Cyrenaics like the Peripatetics would wear a short beard, and we see in the statue as in the statuettes that the beard must have been out close or it would have loft its mark on the breast. The stutue, as is universally agreed, represents Aristippus; can the statuettes, which resemble is in general character and in the particular detail of the veiled hand which is known in no other philosophic-and I think in this form in no other undo-statue, represent anyone else! The statuettes are replices of a famous philosophic statue, and the type of board preserved by the British Museum replica is only appropriate to one or two schools. The statue, though clearly derived from an earlier original-witness the comparative simplicity of the dispury presents the characteristic features of the statuettes, the lean and wrinkled body the head resting in the right hand, the left arm completely hidden in the himation and (by inference) the short beard. May we not conclude that the Aristippus Spada is a life-sized copy of a different and earlier original, and that in the four statuettes we have reproductions of a later Hellemstic variant of the original type, altered slightly in composition but carefully preserving the gestures and the esential features of the original?

Is it possible to assign the work to any school! The strong resemblance of the British Museum head to the recently discovered Aristotle is suggestive and it is hard to assign the Aristotle to any but the school of Lysippas, the official sculptor to the court of Alexander. Nothing is more probable than that Aristoppas grandson, namesake, and successor should have erected a statue in honour of his grandfather and prodecessor as Tophon did in honour of Sophodes and Theophinatus of Aristotle, and should commission one of the great realistic sculptors of the day, the old Lysippus himself—sculptor of a lamous portrait of Socrates and of ideal portraits of Acsop and the Soven Sages—or one of his sons, or his brother Lysistratus, inventor of casting from the human face, to produce a statue. There is no such dramatic appeal to the emotions as in the statue of Demostheres with his clasped hands and Fiery soul which, working out its way, Freited the pigmy body to decay, And o'erinformed its tenement of clay'; self-contained and reflective the

philosopher sits, the embediment of Lucian's charming and gracious and most clubbable man, which into of the greatest of philosophers, the same writer de Parus, 33) elsewhere calls him, the Wise Man of tradition and Horace:

omnie Aristippum decuit color et status et restemparatem muicra, fere praesentibus aequum. contra, quem duplies param patientia velut, mirabar, vitas via si conversa decebit.³⁶

Such praise as this must be remembered, and set against the hostile hints of Plato and Xenophon the mystic and the sample-minded soldier, and the

grosser atories of the lite compilers.

The original of the Spada statue was obviously life-sized; what of the statuettes. Can they too be derived from a larger work, or must we assume an original on a small scale? The little heads in branze and muchle of Zeno, Demesthenes, Epicurus, Hermarchus, Pseudo-Seneca, from Hercalaneum, are hardly parallels, as they do not aim at reproducing more than the head; other seated figures on a small scale exist at Ince." for instance, the headless Meschion of Naples, and the statuette of Hermarchus at New York already alluded to; but they are rare. Much man interesting and suggestive is the fact recorded by Lucian that the physician Antigones of Ces was in the habit of carrying about with him a statuette of Hippocrates a cabit high." this as Dr. Bernoulli justly says, midicates that the use of herms in private circles did not prevail so exclusively as existing monoments would lead us to It exmed he doubted that a portrait of Hippocrates was not originally made on so small a scale; it is probable that the countryman and disciple of Hippogrates had this figure made for his own convenience. Why however, should four repliess of a portrait of Aristippes on a small scale exist and an a large scale only one? It may well be that, as the Cyremies. in laser times at least, were not un important educational body, or even, apparently, a highly organised school," they would need few portraits of the founder for public use, few, that is to say, on a large sinh; the later Cyremaes were individuals rather than members of a great organisation, admirers rather than apostles: if they washed for a percent of their founder it would be for personal reasons, so that a statuette a cubit high would suit them better than a reproduction of the original on its proper scale and that the original of the statuettes, as well as of the Spaila statue. was life-saxed the analogy of the small heads from Herculandum and the statuetzes of Hermarchus and Hippocrates leave little doubt. This theory

that and sexpenses and convergence of Para Hear. 18. This process and the convention of Vice and Victor should be put agreed Leiann's him was attack or line as a glutton, a master of vices, an assetotic int in Fig. Access 12.

⁻ Sm. 1 well, 23 , up, wir. H Z, 280.

Chron, 846; No. 2154; Michaella, Auc. Mart p. 352.

² Philips, 21.,

^{*} Br. Ikon, i. p. 161.

^{*} The list of names given by Diogenes-Laurities (N. S. 7) to a about one Cl. Canapeta chapters on Aristoppins and blue book

is confirmed by the existing portraits of the brads of other schools; the Stoics and Peripatetics were large and flourishing teaching bodies; partraits of Aristotle and Chrysippus would therefore be wanted for the schools; it was Aristotle's successor Theophrastus who ordered a portrait of the master to be set up in the sanctuary (lepar) of the school (Diogenes Laurtius v. 2-14) and of the popularity of their portraits in later times we hear from Juvenal (Sat ii 6);—

quamquam plena amnia gypso Chrysippi invensas; nam perfectissimus horum est. Si quis Aristotelem similem vel Pittacon emit.

Personal feeling rather than formal discipleship characterised the later admirers of Aristippus, if we may take Homee as a type; and an objet d'airt in the shape of a reduced copy of the entire statue, which has every mark of being a characteristic portrait, rather than a life sized reproduction would

be more in keeping with their private wants.

The Spada statue then appears to be a careful copy of an early Hollenistic original, the statuettes to be reproductions of a second and dightly later type, in which a variation on the original pose introduced certain modifications of position but preserved the essential features, the amaciated body the chin resting in the right hand, the left hand and arm wrapped in the himation, and the turn of the head to the left to be inferred from the position of the neek. The British Museum bronze preserves the head and furnishes a basis for further identification. For the first time therefore we possess two variants of the same subject in different materials from different originals, and on different scales, excellent examples both of the portrait destined respectively for public and for private use.

NOTE ON THE BRITISH MUSEUM PASTE BEARING THE NAME OF ARISTOPPES.

The authenticity of this gem, which bears a head of the philosopher between three basts of the appropriate deities, Donysus, Apollo, and Athena, and a full-length figure of Aphrodite crowning the post; and the inscription APISTITHOS, was accepted by Furtwangler and Bernoulli; but Dr. Studmezka has pointed out that the type of the philosophic bast wearing a chlamys fastened by a brooch on the shoulder is never found before the Remaissance, and that the gem is (as the present writer had independently noted) a worked-up and often repeated version of the Orsini cornelian of Gallaeus (Imagines 32), liself an uninscribed gem attributed to Aristippus

Walness pointed out to me, is found on Roman langua Committee Funds in Halbert in Mich. A. Allertone Kommittee für Wolfelien, v. Pl.

XIX. c. XXI. 25; other specimens, in Mains and in the Bachates milesteen in flasts, are mentioned, i.e., p. 207.

on the ground that Pirro Ligorio possessed a similar but inscribed head in As both have long disappeared the portraits cannot be judged at first hand, but the foundation for the name is so slight that it is most unlikely to be correct. As to the paste, apart from the doubtful character of the portrait, the Aphrodite strikes me as suspiciously like an adaptation of the Venus de Mediri, the lyre of Apollo and the cup held by Dionysus to his lips are far from satisfactory in their respective positions, and suggest a Renaissance rather than a Roman origin, which does not make the coincidence of the principal head with the Aristippus type identified on such precarnous grounds by Romansange authors at all less suspicions. evidence is all against the retention of the paste on a genuine amount portrait of Aristippus, and Dr. Winter's ingenious conjecture, that we have an Aristippus in a philosophic bead at Berlin and its replicas which he compares with the gen and considers on a priori grounds quite satisfactory, sherefore falls to the ground. (Winter, Postschrift für Theodor Gompers, pp. 436 seqq. the head and one of its replicas are also published by Arndt in Gr. u. rom. Partr 361-2, 363-4.)

One other late Remassance portrait of Aristippus exists, as Dr. Studniczka points out, in a large medal by Claude Varia ()l. Lyons, 1630-1654) in the British Museum (no reverse type). The inscription reads ensturive circumsus, and the portrait is a reproduction of the Spada head with the addition of a tunic round the edge of the bust, which is in high relief, and the exaggeration of the rugged features and wrinkled nock of the original. Its chief interest is the evidence it affords for the reading Aristippus adopted by Varin, and later by Cassiano del Pozzo, as against the almost universally accepted Aratoteles or Aristides, for the nescription of the statue in the Palarzo Spada. It is worth while to mention, for the sake of completeness, that on his monument to Dr. Jaseph Warton in Winchester Cathedral, Flaxman represents that headmaster as teaching a group of Winchester scholars in the shadow of two herris representing Honor and Aristotle. The latter, of course, is a copy of the head of the Spala status; it also appears in Barry's painting of the Elysian Fields at the Society of Arts, side by side with Plate and close to Socrates. The true head of Aristotle has been recently carved as a finial over one of the doorways. of the Bodleian Library at Oxford, tts companion head being that of Plate.

The Alcihiades gam (Fig. 2 received its name according to Faber (Imag, Illustr. 4) from its likeness to one on which was engraved the same head together with that of Socrates, the latter's mane being unscribed in Greek letters (I is impossible to assume on such evidence that the likeness existed or that the gem was genuine, but at least there is no improbability in finding a head of Aristippus side by side with that of Socrates and it is perhaps in favour of the gem that only the name of Socrates was inscribed, since a Remaissance forger would probably have added that of Alcibrates as well.

KATHARINI A. ESDAILE

NOTES ON INSCRIPTIONES GRAECAE V. 1.

Tur outtor of the recent volume of the Inscriptiones Graces, which comprises the inscriptions of Laconia and Messenia, is to be congratulated upon the conclusion of a long and artinous task, and still more upon the careful and scholarly manner in which that task has been accomplished. Undertaken originally by Max Fraenkel, who devoted to it the few months of life which remained to him after editing the Argolic anscriptions (I.G. iv.) it was carried on by Hans von Proff, and after his sudden death in 1903 was entrusted by the Berlin Academy to Walter Kolbo, now Professor at the University of Rostock, who after almost ten years has completed it in a manner worthy of the august body under whose anspices it has been carried through. Out of 1626 inscriptions, 158 had not been previously published, while the texts of those which were already known have gained much by correction; based usually upon the copies of the editor or of von Prott, and by judicious restoration. The present writer has to acknowled a number of errors and amissions in the epigraphical section of the Sporto Museum Catalogue which are set right in this volume.

While it must be of great interest to all students of Greek epigraphy and antiquities, the work will receive a specially warm welcome in this country, in view of the large part taken by the British School at Athensince 1905 in the discovery of new Laconian inscriptions and in securing

once exact and trustworthy copies of those already published.

There is a sense in which this volume is final and definitive. Yet inasmoch as the editor has gathered together between its covers most of the materials necessary for the appreciation and criticism of his labours, it is natural that others should try to check some of his results and, it may be, to carry the work yet a little farther toward perfection. I add notes of a few of the points which have struck me on a first glance through its pages: the fact that the questions dealt with are apparently so triffing must be regarded as my tribute to the success of Professor Kolbe's undertaking.

No. 27. The stone in question is in the Sparta Museum, where it hears the number 446. The text is so mutilated that I did not think it worth while to publish in the Catalogue all I could decipher, but gave only a few words and phrases for purposes of identification. To win as much as he has done is a triumph of von Prost, but unhappily the corresion of the stone's surface has gone so far that it is impossible to restore a continuous text.

69, 71. In 69 II. 30-35 and in 71 b II. 23-39 we have a list of the Spartan conoditates who held office in the year of Cassins Aristotales, shortly after 150 A.D. The burth name in each case (69 I 34, 71 b I, 37) is written SΠΕΡΙΚΑΗΣ upon the stone and is transcribed by Kolha following Bosekh and the Sparta Muscown Catalogue IIδ(πλιος) Μ(έμμιος) Περικλής. This reading I now regard as untenable. The present case must be treated entirely no its own merits, since this Pericles is not absorber mentioned.

In none of the 34 other instances in the present volume in which the collocation Hóracos Ménacos occurs do we find this monogram of flom used. Hóracos is, it is true; sometimes abbreviated to flow [7] times] and far more frequently to flow h a small opliced insule (15 times) or above it (once, in 197); but Ménacos though abbreviated eight times to Mg, at adding separately or in figature, is never shortened to M, and it is extremely indikely that, even were it so far abbreviated, it would be combined with from a single monogram. On the other hand, Pompunius is written time times in full, four times as Honaco, once as Honacotte in full, is abbreviated once to Honacotte which is most frequently written in full, is abbreviated once to Honacotte written separately, may 170) the G is engraved within the flow which a small M is added by figuines, while twice (464 fl. 2; 12) we have exactly the monogram of flom with which we started

It seems to me therefore that in 60 and 71 we must read either Hom whos) Hemalis or Hom words. Hemalis, preferably the former. The absence of a praemonen need cause us no unesamess, since the omission is very common and is found on both lists in the case of the following name Hackars; Xomograpos. I call attention to this correction because this example is frequently address to illustrate the lengths to which the Greeks carried their practice of abbreviation (Franz. Elements, 353)

177. Amongst the citalogi collegiorum incerti figures a fragment of a list of names of which the last two are, according to Kolle's transcription.

[Μά]ετεις · Φίλιππος (Φιλίππου) [Θ]εδδαρος (Ι)Εωγητάς,

The note is added: 'Earprise scripsi rates litterum E a lapleida emissam vel E et E la ligatum E configueus esso.'

A pairrix is found in each of the lists of Tancipus (210-212), in the only complete list of ai arraphiers; (200 L 13, conitred in the Imlex) and in that of the ispoderus (141 L 5), and I believe that similar functionaries are here referred to, though Kolbi has placed them (p. 348 f.) in a different class. Further, I cannot accept (Enyquiv): the absence of a patronymic is, though not conclusive

Mempilus.

¹ M. Ady is written in someogram on an Altin gram stone (J. 77. 111. 1253), but that belongs to a considerable later date and the collection Marrier Aureline is far commoner than Publish

³ I have minimi the asmogram of Rop to 1458, for which - my note below.

I agree with Kolbe in the first part of his statement (p. 70), 'certum duco & significare libertum et per compendium scriptum esse pro ἐξελεύθερος'; but the second seems to me less likely in view of the fact that ¿ξ is used before vowele (also ἐξ Περφέλας, 209 l. 22), while ἐκ or ἐγ œems before consonants (209 ll. 24, 26, 29). I take it therefore to be the preposition rather than an abbreviation of ἐξελεύθερος,

229 Diffield lections is van Wilamowitz's note. But Frankel's reading is fully berne out by a copy made by myself when visiting Kaiyvia Sochiotika with Professor R. C. Besamquet in Documber, 1903, when the inscription was uncovered and thoroughly cleaned. The letters are carefully engraved and are all perfectly clean. A currous fact is that the final A on the stens is so far from the right hand margin as to make it unlikely that anything followed: if this is so, we have here another example of the use of a for description of which 981 affords an instance.

To the various spellings of θουναρμέστρια I called attention in J.H.S. xxv. 50 f., and in J.H.S. xxxii 100 I gave a list of the occurrences of the word. Owing to changes made in the numeration of I.G. v. j. after the first proofs were in print, No. X should be read 1390 instead of 1388. No. XI. 1447 instead of 1439: No. IX occurs in the present volume among the Addenda as 1511.

The riddle of the first line I cannot solve, but have a suspicion that in this hyperarchaistic text the mother and father of the dedicatrix may be mentioned, in which case we must read 'Οβρίμω instead of 'Οβρίμω. If we accept the latter reading and make it refer to a human being, we are confronted by the difficulty of the singular number in σειναρμόστρηα. Or can there be a reference to 'Οβρίμω, the by-name of Persephone given us by Lycophron 608 /

596. In the Addende (p. 304) Kolbe accepts the reading $\pi a \rho(a \delta \delta \xi v v)$ $d \rho(l \sigma \tau a v)$, which I suggested in J.H.S. xxxxx. 103 on the analogy of what are now I.U. v. i. 305, 554 and 555 b; further examples of the same collocation are found in 553, 555 a, 628 and [641]

683 The editor seems to have overlooked my correction προστάτ[ου πόβλεως (BSA, z. 69), and continues to read προστάτ[ου της πόβλεως in 1.7.

There is, however, no room for the article, and in 547 the same man is entitled approximating moderns. Cf. 32 A 4 trapelymorphy moderns.

1142. An archaic arctono from the village of Marina written retrograde, has in its first line the dedicator's name.

E-TMANTES

which Kathe transcribes 'E., μαντος, adding the note 'E[ρ]έμαντος sive E[χ]έμαντος legi posse concedit editor. 'Εχέμαντος in titulis Deliis, velut LG, xi. 199 A 32' To me a much more probable conjecture seems 'Ε[ν]όμαντος. Εναγούει who deals with Greek inscriptions knows by experience how liable γ and τ are to be confused, and though the name does not occur elsewhere (its existence in Laconia need cause no surprise. For we already know from Sparian inscriptions of an 'Ενομακρατίδας, the son of Damonon (213 μενείπ) and of a patronomus Ενομαντίας (97, 280), and the latter points to the existence of a name 'Ενομαντίας as 'Αρχιάδας to 'Αρχίας, Καλλιάδας to Καλλίας, etc. 'Ενομα must be taken as a Laconian form of διομα,' which commonly occurs as δενιμα in Dorian dialects, giving rise to such names as 'Ορομακλής at Treesen and Megara, 'Ορόμαρχος und 'Ορομακλής at Cyrone, 'Ορόμανδρος at Cos Calymna and Halasarma, 'Ορόμαν at Corinth and Rhodes, 'Ορομάντιος as a Greek name,

A further possibility would be to read 'E[τ]ύμαντος, and to connect it with the Spartan names Έτυμοκλῆς (604; Xen Hell, v. 4, 22, 32, vi. 5, 33; Plut. Agesti. 25), Έτυμοκλήδεια (488, 534, 591) and with Έτυμος, έτως, έτως το me less probable than the other.

1213. Kolles rightly interprets the inscription \underline{M} on a large ball of black marble as equivalent to $\mu(mi)$ η' . His note is sphaera, coins radius 0,075 m ponders babet circa 4000 g rel, si minam 655 g habers duxeris, septem minas. But η can hardly bear the value 7; it must denote 8, and the weight of the mina, if the total of the ball is rightly estimated, will be 575 grammes.

1280. If Z really stands on the stone after the mone of Cratesiules in 1.10, it might be explained, like ∧B in 772 and K∈ in 1299, as giving the age of the documed, seven years.

1483. This bere transcribed $\Gamma(aiou)$ $\Pi o \mu \pi(ov)ov)$. That the monogram is intended to contain five letters I arrough doubt still more that it is intended to represent two names. Here too we have to deal, I believe with a shortened form for $\Pi o \mu(\pi \eta iou)$ or $\Pi o \mu(\pi o v iou)$. See my note on 69 (above).

MARGUS N. TOD.

^{*} O. Hoffmann, 3.O.D.L.Te 4 1, p. 404.

^{*} For references - the Imbexes of proper

submitted by S.O. D.L. by.

A Paper-Gamelor, Warterbuch, s. vv.

THE CABALLANS OF HERODOTES

Is Hardotaviii. 90, in the second satrapy, along with the Mysians and Lychans, are included the Lasmians and the Cabalians and the Trevesic. A distinction is made between the Lagonians and the Caballans. In vii 76-77, three tribes are commanded in the army of Xerxes by Badres, son of Hystanes. The first name has dropped out, the second people are the Masoman Cabalians who are called Lasonians, the third are the Milyac. The words Kangales of Myloves seem to make a distinction between the Lasonians and other Cabalians who are not Macanians Probably therefore the missing name in ch. 70 is KaBulder, contited by copylists under the impression that the same people were being counted twice over. But the historian really meant to distinguish between the native Cabalians and the Lesonians who were of Massanian origin and presumably immigrants. Accordingly in iti 90, instead of Accorden sat KaBakier sai Tyespens, we should perhaps road Aggorier Kal KaBakier eyrereen.

When Strabo records (p. 631) that the people of Cibyra are said to be. descended from Lydians who occupied Cabalia, he no doubt refers to the some people whom Herodorus calls Macoman, for though Lydians and Macomians were probably originally distinct, the difference was so early abliterated that its existence was a matter of dispute, and Strabe himself ducides against it (p. 625). At a later date Cabalia was colonized by Pisiffians p. 631). This was probably after the time of Herodotus, who percentions Pisitians at all.

Four languages, says Strabo, were formerly spoken in Chyra, - those of the Pisulians, the Solymi, the Greeks and the Lydians. On the preceding page (630) he had stated, no doubt on the same authority, that the Cabalians were said to be Selvani. It was mere antiquarian affectation to speak of their language as that of the Solymi, who were long extract if they ever

¹ II- sommunded all thes introns, recraswarene beer When they for milition ware folged under one commander, as the Phrygan of and Armeniana (ob: 78, Herestona mys reteaseveryone for April 2001. The three tribes were therefor in latibours

[&]quot; UL Alyerman dypenson, in 47. Treeses within Annuar St. Byz: - une to be "France in Parephylia Towns in the Roman Lycia-Pamphylla

um often called Lyrian, c.y. Montenar. It Shephanur preserves one of the numerous annual emmutations - Barby, Hereat, cold by pro-197, 188, etc. II is in that was amount, for Stemm most tays been in the liest satisfy, like Miless which str it all from the - and; - Arran, i. 24, 5, and Shubb, p. 133; ef Polyblers, v. 72, h.

existed but there is no reason to doubt the fact of its survival. Pisidian and Grock were both probably of later introduction, but it is evident that in the time of Herodotus Cabalia must have been occupied by two separate races, the matite Cabalians or 'Solymi' and the immigrant Maconians or Lydians, speaking two distinct languages. These he seems to have distinguished in iii. 90 as Kaflakan cyperees and Aacono, and [in vii 76-77 as KaSqkee simply and KaSqkee of Mylorey, Aacono be cakeouser.

W ARRWRIGHT:

in Homer, where they are no more historical than Bellemphon's other oppositive the Area some shift the Chimners. They were probably nature duties.

Salvini of Cherolina are a fiction — Potarson in Lanchotomski, Pitter de in Pomolytis et it. N. They have no --printe ethicin- except

THE BOSTON COUNTERPART OF THE LUDOVISI THRONE

In the last volume at this Januard is an article by Professor E. A. Clardner entitled 'The Boston Counterpart of the "Ladovisi Throne." In the following pages I wish to make clear that had Professor Gardner been more familiar with the marble itself of which he wrote, and had he not based his criticism mainly upon a study of photographs and casts, he could hardly hold the very poor opinion of it which he expresses. His article is difficult to answer point by point because statements or personal feeling are largely mingled with others of fact or assumed fact; nesthetic criticism is interspersed with archaeological statement and both, I believe it can be shown, with some misunderstanding and error. The article really refutes itself by proposing several alternative origins for the 'Throne' Such a criticism is worth but little, if the criteria for detecting a fargery are so uncertain that the critic is not sure whether they prove the object Neo-Attic or modern.

That the two Thrones are unique objects, the use and decomition of which are not yet understood in all points, is true. They also differ in style in a very interesting way. But Professor Gardner's suggestion that the Boston Throne is a modern forgery is preposterous. He himself can do no more than point out certain peculiarities in the carving and design, which he calls 'awkward,' 'affected,' and full of 'artistic defects,' as proof of his suggestion. Many of these defects, however, do not exist in the original. Had Professor Gardner had more opportunity to study the original, he would realise that, no matter what terms he applied to the expression of the faces, they are not the expressions visible in the photographs he publishes his suggestion that the surface may have been artificially weathered, as in the case of the Aegina marbles, would scarcely have been made had he been familiar with the original. Thorwaldson's statement that it was difficult for him to distinguish between the original Aegura fragments and the restorations of his workmen, has juthe bearing on the marble under discussion. In the first place, Thorwaldsen when he made the remark, was unquestionably thinking of the statues as nurshed and set up after their surfaces had been cleaned and re-worked by his assistants so that the restored portions would not appear too obviously new though they are still perfectly easy to chatinguish. The Boston Throne has fortunately not been man-handled in any such way and its surface is in exceptionally pure condition. That Professor Cardner himself is uncertain of his premisses is clearly shown by his stating that, though in his opinion the murble cannot possibly have the

high century origin which general consensus of trained opinion gives it, it may be 'later classical, probably Neo-Attic' or 'n modern imitation.' The assumption that it is a modern forgery appeals most strongly to him, for this he says best explains its character. This idea he must, however, put out of his head. Had he applied to the authorities of the Boston Museum or to the well-known collector who purchased the marble, or even to some of us who were in Rome at the time of its discovery, had bethat is, examined all the available evidence, it is most unlikely that he would even have suggested the idea.

Leaving aside, then, the utterly groundless theory that the Boston Throne is a modern forgery, there are left for discussion and criticism Professor Gardner's two other main contentions; the one that the marble is so inartistic and full of defects that it cannot be an original work of the fifth century, the other that it may be a work of the New-Attic school. I will discuss the second of these two theories first and it will be seen that Professor Gardner's obvious dislike of the marble has led him into exaggerated and inaccurate statement and has obviously blanded the critical acumon

displayed in his still most valuable History of Greek Sculpture.

It will, I believe be admitted that the Neo-Attic school is distinguished by a lack of simplicity both in the conception of the separate works and in their execution. They are the expression of an over-refined spirit which took pleasure in extreme subtleties of thought and delicacies of technique. rather than in vigorous directness. Most of the bas reliefs of the school are obviously intended as panels to be set, like pictures, in walls or else to form the ornament of marble cases (like the one by Sosibles in the Leavere) which probably served as desoration for public balls or gardens. The statues of the school show a similar character, as can be seen in the over-modelled and tenso Torso Belvedere. In general, it may be said that the bas-reliefs are sentimental and the statues dramatic. Professor Gardner, in his History just mentioned, discusses these monuments and speaks of their general use as documentive panels (p. 42) and points out with outire justness how in them one sees the quaintness of conventional archaic forms . sought after for its own sake (p. 14). In other passages he calls attention to their conventional and mutative character 'p. 200), and finally and rightly calls them overrefined and affected. Were one to read all the manographs by Hauser and others which have been published on the New Attic school, one would learn nothing essential in regard to their quality that Professor Gardner has overlooked. His estimate of them is thoroughly sound and well-stated. He uses but one world would question, and that is the word 'affected.' This implies a knowledge of the artist's nund which we do not possess. For a work of art to express affectation it must express feelings which the artist does not really have, but which he merely pretends are those which govern him. What would be affected in the critic need not necessarily be so in the artist. I dwell upon this point because Professor Gardner applies the sum opithot-sucception-to the Boston 'Throne' and I hape to show that he is unjustified by anything but his own personal fe-ling in doing so.

If now, keeping the general characteristics of the Noo-Attic school in mmd, we study the Boston Throne' we shall see at once that no matter how poor a work of art it may be considered it cannot be a product of this. school. That is absolutely impossible. No one looking at it with a truly critical eye, can find in the figures which are curved on its three sides, my trace of conventional or imitative forms. Were they so, there would not be the difficulty, which all students have felt, in explaining the meaning of the figures or in deciding to what school the artist belonged. Just as it is still impossible to be sure from what school the sculptor of the Ladovisa 'Throne' came, because there is no other monument which resembles it, so it is impossible to be sure about the Boston 'Throne.' At present these two marbles are unique, and resemble only one another. What however, can be stated with certainty is that the Boston 'Throne' does not resemble in the slightest degree any known Neo-Attic monument. It has none of the decorative quality, the quality, that is, which shows itself when an artist desires to make a design pleasing in composition, colour, or chiarocuro, without thought of anachronisms or of giving any definite meaning to the scene represented. On the contrary, it is evident that the sculptor who carried the figures on the Boston Throne had the intention of conveying n clear story by them, even if we are still unaware what that story was Nor is there, as will be shown later, any trace of anachronism such as Professor Gardner suggests. Furthermore, the Boston Throne does not report (even though it may recall) a single known type nor is there any trace of over-claborated modelling. Finally, there is no sign of the dwelling on archaic forms for the mere sease of their quaintness, which is the characteristic of archaistic work. This is not a mere statement of my personal judgment. Anyone who would prove the 'Throne' to be archaistic, must show in it signs that the sculptor possessed a greater knowledge of form and of technique than he wished the murble to display-that he was intentionally trying to hide his own expanities and reproduce the imperfections of an earlier age. This intentional self-limitation is the chief characteristic of archaistic artists in whatever epoch they may chance to live. and in one way or another they invariably betray themselves. Strange as some of the figures on the Boston 'Throne' are, and inexplicable as the main scene may, in our present state of knowledge, seem, it is still obvious that the scalptor in no way contradicted himself and that the Throne is aesthetically and technically united and self-contained.

Having now controverted Professor Gardner's arguments for the modern or New-Attic origin of the Throne liet us consider the evidence he brings forward against its being, as has been heretofore believed, a work of the fifth century u.c. It is of course, admitted by everyone, that, whatever the original purpose of the Ludovisi and Boston Thrones, they were in all probability pendants one to the other, and were made by different artists. Professor Gardner mentions the frieze of the Siphman Treasury at Delphi as showing great differences in style between different portions, but overthrows the suggested comparison by pointing out that it is still a matter of

dispute whether the differing fragments really belong to the same frieze. There are, however, other monuments which show similar differences in style

between different portions. For instance, the two pediments at Olympia. and the metopes of the Parthenon. Or to take a still more striking case, the small marble statue from Sunium, now in the New York Museum, in which we see a pre-Persian body crowned by a post-Persian head. It is obvious that in the lifth century B.C., before the art of sculpture had been completely mistered, the Greeks were not offended by contrasts of this With such examples in one's mind, one cannot agree with the statement in Professor Gardner's article (p. 74), that the 'difference between the

Ludovisi and Boston portions' is 'inexplicable.'

Professor Cardner next goes on to discuss the subject of the Boston Throne, and points out (but in a way that seems to imply his disagreement) that 'its very strangeness has been used as an argument in favour of its gennineness. A perfectly good argument this is too, but Professor Camber is putting the shoe on the wrong foot. He must remember that he is almost the only archaeologist of note who doubts the gennineness of the Boston Throne. The rest of us, who see no reason to question it, do not bring forward the 'strongeness' of the scene to prove its authenticity, because the 'strangeness' is easily explicable by our ignorance of much of Greek thought. but we would ask Professor Gardner, or anyone else who doubts the marble. to show as any recognised forgery that shows a similar strangeness. The Throne' is by no means the only bit of ancient sculpture the meaning of which is not clear, and yet we can scarcely think that Professor Gardner will attempt to prove the Harpy Tomb or the headless figure of a youth found at Subjaco and now in the Museum of the Terme in Rome to be forgeries because he cannot explain them.

The two principal scated figures are called by Professor Gardner affected and theatrical to a degree, and, although he finds similar contrasts in emotion shown in the work of fifth century vase painters, he thinks it unlikely that contemporary sculpturs should show any such feeling, and that the explanation lies in the Boston Throne being a direct unitation (I suppose he means of the vase by Duris which he mentions) or a 'survival in later times of similar mannerisms. II, however, it is a survival, he must admir that such treatment existed in early times. It certainly did, and was very characteristic of the sculpture of the best epochs in Greece. One of the earliest instances is found in the Vaphio caps, which show a marked and intentional dramatic contrast; another is seen in the Olympia pediments. The seated old man in the East pediment, for example, is clearly intended to exhibit a dramatic contrast to the other figures, and several of the Lapiths show the same in comparison to the righting centaurs. So, too, strongly dramatic contrast is shown in many gravo reliefs, and a stronger expression of it would be hard to imagine than in the Athena and Satyr of Myron's farmus group.

Beyond these questions of feeling there is the final one of style, and it is in the study of this that Professor Gardner lets his lack of interest in, or

his lack of appreciation for the Boston marble betray his critical judgment. He points out that the marble does not iflustrate as plainly as many others the principle of compressing the reliefs as it were, between two planes, the plane of the background and the original front plane of the slab. This principle is as he justly remarks, a very common one in many early robers. Had he, however, studied the Boston 'Throne' in front of the original itself he would have seen that his statement, that it shows no trace whatever of this principle, is a great exaggeration. So, too, it seems to me exaggerated to say that the figures 'are in the round clausily flattened against the ground of the relief. But not only does Professor Gardner go too far in making these statements, he also deceives himself in laying altogether too great stress on the principle of the compression of reliefs between the background and the front plane of the slab. While many sculptors followed this rule, very nouny others did not, and it is easy to mention several genuine early Greek reliefs in which the projection of the figures varies so much and the planes of the relief are so completely ignored.' Before mentioning these, it is worth while to point out one pseuliarity of the two "Thrones" which seems to have escaped Professor Gardner's notice. If the front plane (original plane of the slab) is much more noticeable in the Ludovisi than the Beston 'Throne,' the back plane is much more truly kept in the latter. In fact when one looks from the end along the main scene of the Ludovisi 'Throne' one will notice that the back plane is not kept at all, but rises forward or sinks back like the surface of the sea. So much for the keeping to the front and back plane of the Ludovisi example. Now let me mention a few genuine Greek reliefs in which the figures project. One such, of a rather earlier date than the 'Thrones,' is in the Boston Museum. It represents a mounted warrior, and it is obvious not only that the figure was not compressed between two planes, as Professor Gardner thinks all genuine early reliefs should be, but also that the head of the horse was in the full round (Fig. 1). Again, in the metope of a fallen warmer from the Treasury of the Megarinus at Olympia there is diversity of planes, and one sees traces, though less marked, in the Association frieze and the Harpy Tomb. Surely the compression between two planes is not the most noticeable feature of the motopes from Selinus and Olympia, and Professor Gardner's condemnation of the Boston 'Throne' on the score that the figures are really in the round and only claimsily flattened against the background falls with equal force on many of these metopes, or on the figure of Apollo in the tomb railer from Thases, which is in the Louvre-And what would be say to the figures decorating the columns from Ephesus or to grave reliefs which can be seen in the British Museum ?

The next point Professor Gardner takes up is the composition of the Boston reliefs, in which he finds many defects. He points out that the two scated figures of the main scene project beyond the field of the relief. Instead of this being an error in the composition it is a very subtle excellence for if it were not for this projection that of the figures on the sides would be very ugly when the larger relief was looked at, as one can see

in the Ludovisi 'Throne,' which in this respect is less excellent than the Boston one. Furthermore, the Greek sculptors did not always, by any means, consider themselves bound to consider the edge of the slab as the fixed outside limit of their composition. On the Harpy Tomb the winged creatures and other details project into the moulding on the sides and top, and in the graye stelle of a warrior found at Palla and now in the museum at Constantinopie, the real field of the design is scarcely considered, yet this stelle is neither a forgery nor martistic. The Hegeso relief in Athens



FIG. 1. BELLEF OF HOLDSMAN IN BOSTON

is another case where the artist the not mind having the design spread over its assumed frame, and one who would call it changs or inartistic would be a stickler for rules and incapable of understanding art or artists. These are just a few of many cases which could be mentioned, which show that it is an uncritical attitude of mind which presupposes rules formulated, more or loss, from modern practice and then blames the ancient Greek artists for not obeying them. The easy relation visible in the Boston 'Throne'

between the scene curved and the more or less fixed outline of the block, the hold and original way the material is treated, are typical of the best ancient Greek work and quite unlike Neo-Attic productions or those of

modern forgers.

Other criticisms by Professor Gardner of the composition of the figures on the Boston Threne are equally mad a propos, or so exaggerated as to be untrue. He says that the wings of the Eros 'instead of filling the vacant space of the background are awkwardly hidden behind the two seated figures. This is not the case, as it is only the very tips of the wings which are hidden and one are partially hides one wing. Furthermore I would suggest that this manner of composing the figures so that they are shown to be in front of the Eros is not so stupid as it seems to Professor Gardner, but was done to suggest that the Eros was not really visible to the two seated women—much as the spiritual rather than the actual presence of Athem is suggested by her statue placed behind the warriors in the Aegina pediment, and the Apollo partly covered by the Lapithis on the tempic at Olympia.

Another peculiarity, says Professor Gardner, of the Enw and the two seated women, is the 'attempt to render them three-quarter face, in the heads of all three and in the upper parts of the bedies of the two scatod figures. This would be a peculiarity did it exist, but it does not do so. The head of the Eros is full front, and so too are the bodies of the women, and if Professor Gardner will ask a model to take this poss he will find that the body turns as nearly as possible full front without any unnatural strain. His criticism of the modelling of the breasts is one must believe founded on photographs, the lighting of which has deceived him, for on the original they do not seem 'distorted' Nor does it seem to me that these seated figures are particularly exceptional in idea. There are several examples of sculpture from the fifth century which show that there were many artists at that time who busied themselves with the treatment of figures scated and turning their bodies. One of the most remarkable is the metope from Olympia representing Athena scated on a rock; others secur in terra-cotta, such as the Electra' relief in the Louvre and one in the British Museum, while the Penelope statue in the Vatican is an example in the round. I do not me in to imply that any one of these is in every detail like the Boston figures, but I do mean to say that they all exhibit similar imperfections in the rendering of the post and that the Boston figures are perfectly true to fifth century style.

As for the expression of the faces in which Professor Cardiner sees a feeling of cariculare, I can only say that they do not impress me in this way, nor does the obviously intentional differentiation in the expressions seem to me alien to early Greek sculpture. The faces of the figures of the Olympia pediments are full of a similar dramatic contrast in expression, and I think in one will doubt that it existed between the fallen giant and the Goddess striding over him in the metope at Temple P at Selinus. It certainly was common enough a few years after the Boston Throne was

made, and so we can hardly doubt was attempted by the earlier artists. The vase painters who were contemporaries of the sculptor of the Throne represented dramatic contrasts in facial expression often enough, and so even if the artist of the Throne, succeeded only in giving a feeling of caricature, as Professor Cardner thinks, still his attempt is exactly what one would expect, and entirely unlike anything to be seen in the Neo-Attic vehool.

In this part of his criticism, as in others, Professor Cardiner also your too for in mixing supposition with fant when he says Throughout there is the greatest possible contrast to the simple and unaffected treatment of the face which we see in the three extant heads of the "Ludovisi Throne." The faces of the two side figures on each 'Throne' are in repose, and Professor Gardner admits that there is at laust a 'chansy affort' shown in the youth on the Boston Throne to imitate the simplicity of the contral figure of the Ludovisi relief. So far as the heads on the Ludovisi "Throne" are preserved they show quiet expressions, though to my eye there is a very distinct contrast between the expression of the Aphrodite and the made But no comparison is possible in this regard between the 'Aphrodite' group and the 'Eros' one, for in the former only one face is preserved and we have no notion what the expression on the other two faces was. For this reason Professor Gardner's comparison of the Ludovisi side. figures or the one head remaining of the chief scene with the group of faces on the Boston relief has little or no point.

The draperies of the two seated women on the Boston relief curaccording to Professor Cardner, hardly have been carved except by a scalinter who had 'seem at least the frieze of the Parthenon and the Attic tomb relicis. This statement is, of course, more the expression of a general feeling than a real criticism, and I may, perhaps, be permitted to express my feeling that there is more essential likeness to the work of the Parthenenin the folds that play hade and seek with the lower leg of the lefthand figure of the chief Ludovisi relief than in anything shown by the Boston figures. If the sculptor of the latter did know the Parthenon be certainly failed atterly to reproduce its fundamental qualities:

There is however, little to be gained in a discussion of this sort by merely stating my feeling against Professor Gardner's. What is needed are actual examples and, so far as may be proofs. So I will only say that I cannot agree with what he says of the difference in the treatment of the hair of the Larlovisi and Beston figures. It seems to me in all ossential points the same. The narrow land in the hair of the old woman on the Boston "Throne" is of the same fashion as that worn by the Myronian Persons in the British Museum or as that seen on certain Sicilian coins.

In what he says of the hands and feet of the figures Professor Curdner exargerates once more. As for the hands, those on the Boston Throne do not seem to me either so affected in pose or so accumately realistic so he says. In pose they but show the daintiness that one sees again and again

in early Greek art. The hands on the Ludovisi 'Throne' are noticeable chiefly for their absence, but in shape of heavy wrist and long-jointed hingers those which remain are very like those of the Boston figures, while the spreading of the fingers of the woman playing the pipe is similar to that of the fingers of the lyre-player and due to a similar cause. Nor does the contrast seen by Professor Gardner in the feet on the two 'Thrones' seem to me to exist. Those of the Eros are without doubt bad, but the problem the sculptor had was an almost impossible one to solve and he did it much in the same way as the sculptor of the Athena in the Olympia Metope. representing Hercules cleaning the stables and of the Hesperid in the group with Atlas and as the sculptor of the Thanates on the column from Ephesus did. Of the feet in the Ludovisi relief he says the soles are that and firmly planted on the ground while on the Boston relief they are soft and supple, and adapt themselves to the contour of the surface they rest on Now it is not uncommon in early Greek art to find the feet of figures adapting themselves to the surface they rest on, nor does the contrast suggested by Professor Gardner between this detail of the two 'Thrones' exist in fact. For instance, the toes of the figure burning incense on the Ladavisi 'Throne' bend over the foot of the burner in exactly the same way, though not so much, as do those of the Boston lyre-player over the scroll. But even more marked are the fest of the attendant nymphs in the chief Ludovist relief which hend and conform themselves to the contour of the pebbly ground in a very noticeable fashion. In fact there is a very clear resemblance and no contrast, between the two Thrones in this Hertmil

Of course one must agree with Professor Gardner when he says that the two scales with the small figures standing on them are strange, but one will find it difficult to agree with his argument about them. His comparison of the figures to works by Barne Jones need not be treated seriously for it is obviously intended humorously, but he must show some proof much more positive than their mere strangeness before we can agree with him in thinking that they alone suffice to prove that we have not here a genuine early Greek relief. Their length is due to the bodies being stretched out by the figures standing on tip-toe while their arms are held high over their heads. The shape of the head of the left-hand figure and the long thin feet of the one on the right-hand are true to the early style. In the left-hand figure Professor Cardner sees late characteristics in the 'graceful poise of the body, with its curved median line, and the studied absence of symmetry between the two sides, combined with the slender form.' I have already spoken of the alemder form and will merely add that from the Apollo of Tenes to the Apollo on the Omphalos, slendarness was often emphasised by the early artists. As for the absence of symmetry I cannot see wherein this differs from that which one sees in many early figures shown in tense positions: while, finally, the curreture of the median line is scarcely greater than in such figures as the Harmodius and Aristogiton and not as great as (though much more intelligent than that of the small branze from Ligouria now in Berlin.

Not is it greater than in a bronze figure (Fig. 2) in the Beston Museum which is also of equally slender proportions. Furthermore, this figure shows an attitude almost exactly similar to that of the Eros and has the same cheerful grin which Professor Gardner would have us believe is alien to early Greek sculpture."

I have now considered in detail the arguments adduced by Professor Cardner to show that the Boston 'Throne' is not only a poor work of art but

probably a modern lorgery, though his seems shy of saying this in so many words and hedges on its possible Nec-Attic origin. Certainly some of his arguments are exaggerated and based on ill-considered statements. Nor does he add to their force by his suggestion that the 'Persephone' of the Boston 'Throne' is based on the well-known statue of Penelope As for the likeness of the head-dress he can hardly suppose the Penelope was the only statue ever made with this arrangement, besides which the girl burning incense on the Ludovisi 'Throne' has exactly the same. Lastly, his suggestion that the relation of the distance between the breasts and the distance from them to the thigh of the 'Persephone' is due to the amilptor copying a badly taken photograph of the Penelope can only be called far-fetched In the first place it is by no means obvious how he took his measurements to make out that "the width between the breasts is actually greater than the height from the breasts to the line of the thigh.' If he will pes a living model he will find the measurements not so far



Fig. 2.—Buokee Statements as Boston.

wrong at he thinks. Finally, why should even the stupidesh modern forger use a bad photograph of the Penelope when casts can be easily precured or the original seen every day by anyone living in Rome !

Thus while we may all agree that the Boston Throne is not as beautiful as the Ludovisi one, and while there are points in it which are ayat not perfectly understood, we may rest assured that the general consensus of opinion is right, and that it is a work of the fifth century.

RICHARD NORTON.

FURTHER NOTES ON THE SCULPTURE OF THE LATER TEMPLE OF ARTEMIS AT EPHESUS.

[Phare VIII.]

The Square Pedestals.—In some notes on the scripture from the Artemision at the British Museum, printed in the last volume of this Journal (p. 87). I suggested that the fragment No. 1201 most probably belonged to a relief representing either Herakles in the Garden of the Hesperides or Herakles and the Hydra. Subsequent examination and the attempt to make a restoration from the given data have made me sure that the former was the subject of the scripture. Only this would account for the quiet action of the left hand of Herakles and for the closely associated female figure. If this were indeed the subject, how could its normal elements be arranged so as to smit the conditions of the square pedestal



Pro. I -FRANKERY OF PROPERTY.

having a vertical joint in the centre, and umking proper us of the existing fragment of which Fig. 1 is a rough sketch! This question I have tried to answer. The fingmem is now fixed in the side of a built-up pedestal class to its left-hand angle, but there is nothing which settles this position and it is a practically impossible one, for there is not room left in which to complete the figure of Herakles If however, we shift the piece to the right hand half of the pedestal and sketch in the completion of the two figures, we at once see how perfectly the tree and serpent would occupy the centre of the composition and leave the left-hand space for the two other

watching maidens—the whole making a symmetrical group. The hypothesis works out so well that we may accept it as being practically proved that the relief represents Herikles in the Garden of the Hesperides (Fig. 2). The beautiful Meddias vase in the British Museum furnishes an interesting parallel to the composition. Two of the maidens are on the left of the tree and a third Hesperid with Herakles are on the right. That Herakles

might carry a bow in this subject is shown by another radief (Reimach, Reliefs ii. 162). I may point out that enough remains of the figure of the Hesparid

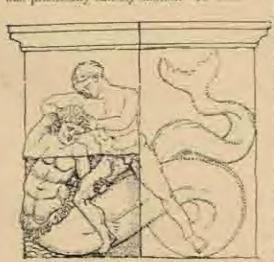
on the right to show that she wore a split chiton tied round the waist with a girdle. The position of the girdle shows that the fragment is fixed about five inches too low; it should also be brought out further to give higher relief to the sculpture.

Further consideration of the block No. 1205, from a pedestal. has convinced me that a combat with a Triton, rather than with a Centaur, was represented. I none tioned some of the facts before and it is easy to frame a scheme of mstoration with a Triton while it is impossible to do so satisfactorily with a Centaur (Fig. 3). The com-



FIG. 2.—EDUTORATION OF PRODUCTAL.

hat of Herakles and the Triton has been found at the early temple of Asses, and an archaic group from a pediment discovered an the acropolis of Athens was practically exactly similar. In both of these Herakles approached the



For S .- RESTONATION OF PERSONAL

creature from bolinid as on our pedestal. Water seems to have been indicated in front of the Triton, and other startled Tritons may have occupied the remaining siths of the pelestal there even to be some slight traces of a second one on the return; of the same block [1205] Such an arrangement would be similar to that of the four Nereids (1207-1210) on another of the pedestala These Nereids follow each other to the right around the block: the Triton, however faces the left, so that it is quite probable that the Nervid

pedestals and the Triton pedestal were pendants to one another and related to the same general subject. The Conquest of Neveus. Doubtless the visit. to the garden of the Hesperides followed next.

I the also Remark's I'men, L Sec.

I dealt will this judical before. For the type of hippocumps compare liminach's Forces,

^{1, 221;} they had flappers in place of front logs. According to Pliny the Kersids of the great group by Scopes and disposamps.

The fragment 1204 has an the left-hand face of the block 'remains of a deer and of a draped female figure standing beside it, who seems to be placing her right hand on its horns; she wears a bracelet. If this group is connected with the labours of Herakles, it may be supposed to be Artemis with the Keryneian stag' (R.M. Catalogue, p. 173). The animal is small and slender, and I cannot see any evidence for horns; it is probably intended for a fawn. The stately Artemis extends her right hand protectingly over the timid creature with a gesture of warning to something beyond which must have been on the other half of the same side of the pedestal. On the left-hand bottom corner of the existing part there is a piece of relief which I do not doubt was part of the neck of the hunted hind which would have been forced to the ground by Herakles in the way this subject is usually figured. 'On Attic black figured vases Herakles seizes the hind and Artemis intervenes to protect it.' Dar, and Saglio et. 'Herakles') In this fine subject we find a link between the staries of Herakles and of Artemis.



Time A .- PART OF PRINCIPAL

It shows the goddess prevailing over the hero and was thus especially appropriate here. There is just enough left to suggest that the quiet, irresistible majesty of Artonis must have been in strong contrast to the violence of Hemkles. Very probably it was one of the central pair of pedestals which here this subject which may be described as Artemis protecting the Kergusian stag from Herakles (Fig. 4).

One of the two most perfect of the pedestal-reliefs at the Museum represents the struggle between Herakles and Kyknos or another giant (compare a seal in the British Museum figured by Daremberg and Sagho an 'Herviles'. The design of this group is easily made out. So is that of the other of

these padestals which I before suggested represented the story of Herakles and Omphale. As restorations of these should be bester than rough

[&]quot;I have forgotten the learning which was a place ring on the wrate prompare one of the Minush; it may be savight to organic that Artemia was not drawed for the hard.

The story of Herakles and Omphais had a local interest at Ephanes, and the representament of II would be specially appropriate at a hearth where statutes assequenting as scores.

served Attenue (II.S., J. 23th p. 102). For Omphale to art see Rowher's Leading and an article by Lechal in Resta in Part served at solvene, 1912. The latter terminks that in the service Herakles is made to appear frenken and ridicalisms. This perfectly discretes his again on the periodal from Ephenet; sometions in carried the flayens of Dicayses, and

diagrams, I have not illustrated them now, but I may do so in the future.

There is every reason to suppose that the adventures of Herakles were dealt with very fully on the pedestals at the entrance front of the temple. There

is no difficulty in accounting for this the story was the favourte one for metope-like sculptures, it was treated at Delphi, Olympia, and at the Thesaum. The tales told that some of the hero's explaits were performed near Ephesus and according to ome account he was the founder of the temple. So far as we know the only subjects on the pedestals which did not directly refer to the exploits of Herakles word some which repre-



FIL E REPORTED OF PROPERL

sented Fictories leading an imula to sacrifies. In the Catalogus the block 1212 is described thus. On the front is half of a group of a Victory leading

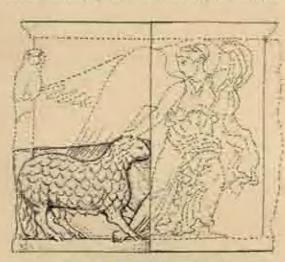


FIG. C - RESPONATION OF PRINCIPAL

a sheep. . . On the second face a bull is led to the right by a Victory." Of the latter subject only. the fore-legs of the ox and the advanced left foot of the Victory resours. The position of the logs of the ox show that it was canning and the Victory was doubtless checking it. Fig. 54 a motive which is found on the Nike bubratrade which was itself adapted from a group on the frieze of the Parthenone The attribde of the sheep on the other face of

this Set may account for the stick on the initial. It is plain that this subject occupied more than one saids of the polistial, and it is possible that Obribish has hive stand in from of Hernkins and that the women border him a to pulls of his thou skin is one of the quest's bandomids.

the same pedesial shows that it was being dragged forward by the Victory who here was in advance and must have been in an attitude very similar to that of the figure in front of the expired mentioned on the Nike balastrade (Fig. 6). The resemblance between these sculptured groups at Ephesus and Athens is very close, not only in general design, but in the treatment of the forms and drapery. The two works must have some direct relationship. A Victory on a block at Epidaurus, referred to in my former article, is again very similar in style. There were probably at losst two of the sculptured pedestals at Ephesus of this type disposed so as to balance one another.

A relief recently found at Ephesus, and now at Vienna (Fig. 7, from Remach's Reliefs, ii. p. 142), has on it two Victories, one leading a goal and



THE T. BRUREAU RELATE IN VALUE

the other a runs. The former who parries an incomehurner, drags along the goat which resists just as does the sheep on our Ephosus podestal. These compositions would perfectly surt square areas like the sides of the pedestals, and there cannot be a doubt that the rolled wainspired by our

pedestal: indeed it is quite probable that it was copied from the missing sides or from other groups of the same series. It would be salightening to have a cast of the Vieuna relief set on the blank part of the pedestal in the British Museum.

The archain temple at Ephesus not only had scalptured lower drams to the columns, but it also, I believe, had pedestals to the amas on which were carved exam of which there are fragments in the basement of the Museum These carved drams and pedestals I have recently ventured to suggest, had their prototypes in the scalptured dade slabs which surrounded the perchesand halls of early buildings at Mysenae, in Asia Minor, and in Assyria Saveral of the Lycian tembershow varieties of the same tradition. Such a reason distregives a further and conclusive reason why the scalptured pedestals and drams should have been exected to range at the same level. The carved drams had pieces of dade, as it were, wrapped around them.

The Sculptured Draws —We say before that the sculptured draws of the columns seem to large had from eight to ben figures surrounding them. The Hermer and Thomston drawn certainly had eight. The drawn of the

[&]quot; Tor Dudies, Pen. 0, 1914, p. 154.

Masses had nine or ten. The dram No. 1202 must also have had nine or ten figures which seem to have followed around in procession. I gain from it the suggestion that the figures were bearing gifts: Most of them were males in oriental dress and we may call it the dram of the Persia us.

The dram No. 121) had five figures on half the circumference. The lower part is lost, and also the exterior surface of the upper part. The sculpture preserved has the middle parts of a series of standing figures. There is no clue to the subject represented. The figures in order from the left are: (1 formale figure standing closely wrapped in her maintle; (2) youth standing wearing maintle only, which passes over the left shoulder and round the body; (3, 4, 5, 6) four male figures standing, all warring maintles; No. 6 makes a gesture with raised right hand. He seems to wear a ring on his thumb (B.M. Catalogue, vol. ii. p. 77). The woman (1) seems to have had her right hand raised near her neck and cavered by the mantle. The youth (2) is smaller than the Thanates of the other column, his arm is very thin

and immediate The woman (1) and man (3) stand close to this boy and partly behind him, regarding him. The three figures evidently make a family group of father, mother, and son (Fig. 8). It is somewhat similar to the family groups figured on the Early Christian 'gilt glasses. No. (4) was also a boy even smaller than (2), traces of his thin drooping arm still exist. He was backed up by the male (5 -his father-while (4) followed making a gesture like some of the figures on the Parthenno frieze who call fer attention. All three seems to turn towards the group of three tirel de ribod, which was almost cor-



Fig. A.-RESTORATION OF THE R.

tainly the centre of a composition somewhat similar to that of the Hermes column, thus:—

MAN SOTHER

Possibly there was a tenth linking figure at the back.

This composition is remarkably like that of a late relief from Ephesia, now at Vienna, which shows the boy Commodus between Marous Aureline and Lucius Vorus with other figures engaged in the rites of sacrifice (Remark's Reliefs; i 145). Compare also a procession of men, women, and children going to the sacrafice from the dwa Phois (Remark, i, 235). The same type of subject occurs frequently on earlier ex-vote slabs, and there its—von xxxiv.

cannot be a doubt that our sculptured drain shows an assemblage of citizens at the temple of Ariemis. This drain of the Citizens was from the east and or back of the temple, as was also the drain of the Muses. Now at the Apollo temple at Delphi there were sculptures of Apollo, Artemis, Latona, and the Muses. At Ephesia, Latona, Apollo, and the Muses would be quite appropriate subjects in a cycle relating to the goddess Artemis, such as there is every reason to suppose would be sculptured at one of the porticoes.

Wood seems to describe the two last mentioned drums as if he thought both were fragments of one drum, but that would be an impossibility. It has been remarked in the Catalogue that the moulding below the figure of the Muses was wanting or was worked separately. The fact that the most beautiful of the drums that bearing the figures of Hermes and Thanatos was at the wast, or the front of the temple, while the Muses drum was at the

other and will explain any small points of difference between them.

The sculpture of drum No. 1214 is in much higher relief than that of the other drums; it evidently had fewer figures not more than six, and it was made in two courses instead of being in a single piece. All that is left as about half of the upper course. Doubtless the drum belonged to some of the inner columns of the portice. Indeed, this is practically proved to have been the case by the fact that its diameter is two or three tuches less than that of the finer drums. The fragment is much decayed in parts probably from causes at work—such as running water—since it fell. Other portions of the surface which are more intact show that the sculpture was of better workmanship than at first sight appears. The height of the upper course of the drum is 2 feet 11 inches, and this is less than half an inch under the half of the drum No 1206 which preserves its full height. Obviously, therefore, both courses of the divided drum were about three feet high.

On the existing fragment are the upper halves of two figures which are thus described in the Catalogue: Two male nucle figures as far as the waist where they are cut off by the joint of the dram. They face each other. The figure on the right holds up in both hands an object curving to the left and resembling a branch. The figure on the left wears a mantle, and a mass of the drapery seems to be gathered in a bunch on the top of a staff, on which the right hand is resting. The left hand is extended. The main facts of this description are well observed. The branch is thicker apwards and it seems to be pulled rather than held up: The man who grasps the branch was taff, had shoggy harr a monstache, and doubtless a beard. The biceps of this man are in strong action, the grasp of his right hand is taken as high up as his head towards the top of the branch. The man's right shoulder is thrown up against his chin, and his brow is packered under the stress.

The other figure is of the athlete type. He has the thick muscular neck, full class, and developed arms of a 'professional.' The right hand of this figure hardly rests on a staff because it could have been little higher than a

⁹ CM. "the Mag attates" of the Pattheron.

I gave a slight restoration of the frame of the Masse is a title both entitled Greek Buildings.

I und that Wood was alm of this opinion. He says that it was found on the north side towards the west, and was 'probably from one of the union common of the periatyle.

walking stick. It is not certain that the action is not that of throwing off a mantle or fion skin." If the hand rests it might be on a weapon like a clob. The left hand is advanced as if to seize the branch. The subject of this drain can hardly be anything else than These as and Sinis. Sinis was the strongest of man, the contest was a trial of strength, and the test was the bending of pines' (J.H.S. vol. axxiii. p. 300) Sinis pulled down a pine, caused the traveller to catch hold, then suddenly let go. The pine sprang up and the traveller was tossed into the air (p. 290). Theseus, however, easily accomplished the task, and Sinis was 'horst with his own tree. On our sculpture Thesens is about to do easily what Sinis could hardly perform with his utmost strength. This exploit of Theseus is again represented in Ionian sculpture at the Heroon of Trysa (Boundorf, Pl. XIX, 14). Here again the moment of the story which was selected by the sculptor was the bending of the pine: 'Among the scenes is one, fairly well preserved showing Theseus alone in the act of pulling down a large pine tree with splendid riging. Smis is not present, and here at any rate it is the actual bending of the tree that is the important thing and the immense strength that the hero puts forth (J.H.S. ibidem, p. 300).

One point that may be urged against the identification of this subject on the Ephesus dram is that the branch' comes down from outside the subject and a complete dwarf tree does not appear to have been shown. Of course parallels might be brought forward like the much more remarkable. Helios and Seleme of the Parthenon. As, however, it will hardly be maintained that the giant is struggling to hold up a branch but little bigger than a hockey-stick, which he grasps close to its upper and so that it could not be evening as a weapon, it seems that it must be granted that he is pulling it down. It may now be questioned whether the bender of the tree

at the Heroon of Trysa is not Sims. mature man, rather than the youthful form of Thesens, and the immense effort would be more appropriate for Sinis. Behind the bender of the tree appears a mittilated figure who was represented us approaching the scene of contest Surely this was Thusens.

If two attempt to make a restorution of the group it at ones becomes evident that there could not have been roun in the height of the two courses to complete the figures in ordinary exauding attitudes. The probable action of Sines is explained by the Tryes. reher, he must have been leaning



F a.—Respondence of Door.

forward with his whole weight on the branch, while Theseus must have been scatcal, doubtless with his legs turned to the left and his body twisted. Fig. (r), Since I wrote this I find that on the r.-f. kylix E 74 at the British Museum the subject of the slaying of Sims is treated so that the tree goes out of the picture at the rim of the vase and comes in again exactly as I had suggested in my restoration. Thesens has taken off his months and hung it on another tree against which his spears also rest, he pulls down the tree top with his left hand while he grasps the giant with the other. The springing up of the tree is to be the means of his death, apparently without any binding of him. Another case of a similar type, E 48, by Duris, has the tree top descending from the rim without any suggestion of origin.

If there was one exploit of Thesens scalptured at the western portion there were doubtless others of the cycle. Fragment No. 1215 seems to me to have formed part of a drum rather than of a pier, and, if so, it may have belonged to the Thesens series—possibly the throwing of Skiron into the see, or it may have been Herakles and Antanas as suggested in the Cidalogue. We shall see that there are reasons for the supposition that Herakles subjects appeared on the drums as well as on the podestals.

In regard to the Hermes dram Dr. E. von Mach has called attention to the fact that the position of the raised hand of Thamatos is similar to the gesture of Orpheus in the well-known Eurydies relief, and he notes the close affinity of these two sculptures, calling one a copy of the other. The gesture is not one of beckening, as it has been called, but rather of raffection and submission. It is very common on the grave reliefs (see Collignon ii. Fig. 195); and is most postically appropriate to Thamatos just here.

I suppose that the subject was imagined thus-Herakles having seized Thunatos at the grave of Alkestis compelled him to return and procure her release. Hades gives consent: Persephone has said adion and turns back Hermes says that he is ready and turns towards Alkestis, who adjusts her mantie and also begins to move away. Thanatos mourning this 'death' back to life expands his wings to accompany them to the waiting Hernkles. figure beyond, to the left of Thamatos, who seems to be turned away from the centre of action is I think Alakos who kept the keys of the lower world rather than Herakles, who should be next to him on the left, the first of the chain of eight figures. Another figure at the other end of the group stood behind the throne of Hades where a tiny ingraent of dispery close to the ground level suggests that it was a female-probably Hekate. Such a concention fails in with what is implied by Europides who says that Herakles did not go to the underworld but grappled with Thanatos at the tomb and compelled him to [return and] release Alkestis. The whole subject, I suppose was arranged thus:-

THEN A K LESS ?	ALAKOR	THANATOS.	ALKESTIK!	HERMEN"	PERSENDAR	ITALIES*	HER ATTR
=	-	7	-	=	-	=	=

[&]quot; he ague from a vee graph by free, and Seglio make that heading

In this order while the throne of Hades is at one end and the waiting Herakles at the other, Alkestis and her conductor Hermes form a pair at the centre. The Robert, I believe, found the reason for this subject being here in some relation between Artsmis and Alkestis. It is far more probable however that it takes its place in the Herakles cycle. As we have seen the adventures of Theseus were certainly represent at on some of the draws in the entrance portice. It is thus highly probable that the Herakles cycle and the Theseus cycle together occupied both the pedestals and draws of the Western portice, while a cycle relating to Artemis adorned the Eastern columns.

After working over the questions concerning these sculptures, and having tooked at them carefully for a long time, I feel that their full value as greatert is hardly jet approxiated. If the drum which is sculptured with the stary of Alkestis is not by a known artist, the master who wrought it was none the less great. As in the case of the Parthenon sculptures if there is doubt as to the artist there can be none as to the art. If Scopas did not carve Alkestis and Thanatos, it may be asked if we have any reason to suppose that he could have done so well.

The improbability as to this dram having formed part of the particular column which was said to have been curved by Scopas is sometimes put in an extreme form. It happens that it is the best preserved of the fragments, but it may be allowed that if all the columns had been discovered none of them could be more beautiful than this. We know the general design of about a dozen of the sculptured columns, that is, of a third of the recorded number. Of these which were in the chief partice, we have evidence regarding about half of them. Put in this form there are about equal chances that the most famous of the column sculptures should have survived.

The exquisite sculptured group now in the British Museum may claim to be the most beautiful relief in the world excepting the frieze of the Parthenon As a work of art it rests balanced and serone in temper between the old restraint and the new freedom, the old hardness and the new pathes. It is perfect both in composition and in handlwork. Dr. E. von Mach has well observed that 'in the folds of the drapery, lightly held up in the hand of the woman, the seemingly impossible has been accomplished. He ralnes this dimpery above that of the Olympian Hermes, 'it is so light and airy: Some of the other reliefs are a little inferior, but Michaelis calls them collectively most beautiful... the consummate art of the Fourth Century.'

in There was a famous marie of Hokate in the temple. Hades, Persephone and Hiskate appear beguther in the House of Hades on a same pointley (Kalmer I. 168). Notice the char interval between this group on the solution and the others who are moving wway from it. W. Kiele has so intely a long, supported the interpretation of the scene as the Judgment of Paris; this however will not support for the action of the groups but described or for other points like the sword of Theorem Further, we have the direct come tion of the this to actors a open

of the exploits of Hamkles, also the numerical resultance of the principal group to the Eury-disc solid where a similar theory is treated in a similar way. The Hermes on one column is very like a Hermes on one of the vesse on which are pointed the Jadgmour of Paris, but this type of figure was one of the commonstratives in fourth continuy art. For the last continue in fourth continuy art. For the last continue, as liayer has jointed out, is a leave taking. The figures fell into two groups between which is an interval.

The artistic relationships of our reliefs are with the Nike balustrade and the works at Epidaurus, which I mentioned before. The drapery closelyapproximates to that of the Atalanta of Teges, a work of Scopes. The slabs from the eastern frieze of the Mausolenia, which are now accepted as examples of the style of the same artist, have flying drapery smular to that of the figures on the Ephesus pedestals, and the body of one of the Amazons has the same remarkable suggestion of softness as the texture of the flesh of the Thanates. Again, the raised, thrown-back head and open mouth of Hermes seem to be characteristic marks of the style of Scopas, while the human and pathetic appeal of the Alkestis scene harmonises will with what is known of his ideals. The beautiful Alkestis group is certainly remarkably like the well-known Enrydies relief, which must have had a considerable reputation, as it was repeated in many copies; and it may have been by Scopus I am convinced in any case that the magnificent Ephesus relief is a work by Scopas. The probability emerges that the Nike balustrade may be his also. If Scopus indeed worked at Ephesos, we must in consequence of his age and reputation suppose that he occupied a position analogous to that of Phendias at the Parthenon. The sculptured drums and pedestals of the columns of the puricoes seem to have been the only external architectural saulpture; certainly there was no frieze. It is quite possible that Scopes devised the whole scheme as he did at Tegen. Collignon suggests that he may have had his accider at Ephesus and that he there executed his other Ionian commissions. Furtwaengler remarks that 'as the other artists are named in connection with the rest of the reliefs they were probably made by his colleagues and pupils (Masterpieres p. 301) Rayet, who has given the best photographic plate of the Hermes dram, points out that the figure of the messenger-god recalls the manner of Polyeleitos; this is particularly noticeable in the design of the muscular forms of the body which are most beautifully planned and rendered. The artist has conserved intact the great traditions of lifth century Artic art, and one may easily lorger than nearly a sentury separates this sculptured column from the frieze of the Parthenon We have not of its own epoch any decorative work which can be equated with it (Monuments 11, 74). I began my enquiry with doubts and an open mind. I cless with the belief that the Ephesus sculptures should be assigned to Soopes and assistants working under his direction

Dotails of the heads of Thomatos and Hornes are given on Plate VIII, and an unpublished fragment of a fine female head is also illustrated in Fig. 10. This last has its surface beautifully preserved; it is thus very valuable as an example of finish and of the treatment of hair. The head of Thomatos follows a feminine type, it is remarkably like the best preserved of the heads of Amazons on that part of the Mansodeam frieze which is assigned to Scopas. The head of Hermes in farm, expression, and the treatment of the hair resembles very closely the head of the Meleager by Scopas in the finest existing copy, that of the Fogg Museum Cambridge, U.S.A.

The Pediment.—There were no sculptures in the pediment. It was the opinion of Wood that some fragments of sculpture which he found name from

pedimental figures. These were a part of an arm, and a fragment of an elbow, both found at the West End, being parts of figures estimated as having been about eleven feet high. The toe of a colossal figure was also found at the East End— It may be presumed that the pediment at the East End contained sculpture as well at that at the West End. Two small fragments of arms and one toe are entirely insufficient evidence for colossal groups of sculpture when it is otherwise next to impossible that such sculpture can have existed.



For 10.—Heam whose Trurie or Autum

Scalptured pediments were unusual in Ionia. The small temple at Priene which copied Ephesus so closely had no such groups. The unmensescale of Ephesus is another reason against sculpture. No architect would tenture to load the epistyle over the enormous central columniation of the pertico with colossal figures. Indeed it is possible that Ephesus like Magnesia, had openings us the field of the pediment to lighten it; we may not doubt that some special precautions were taken to relieve the long stone beam from as much weight as possible. Again, a stone of the pediment 1232 (2)

(the second piece catalogued with it belonged to the archaic temple) shows that the gable and was faced with masonry laid in small courses and was not covered with great slabs. This is practically a proof that there were no sculptures. In the recently issued volume on the Crossus temple this stone has been taken to belong to that building but it certainly formed part of the later temple as is shown by the claw tooling. It had a band of small projection following the slope of the pediment. This suggests that, as at Prieme and classwhere, the pedimental cornice was not so deep as the horizontal one.

I may say here in regard to the great epistyle over the enormous central bearing that there could not have been more than one such bears in the temple. This was the stone which gave rise to Pliny's story about the architect's auxidity; it was a tour do force a stone to wonder at. The back of the temple must have had an extra column and the inner beams and coiling of the peristyle must have been of wood. No tragments of bacunaria have been found and the famous codar ceiling of the temple was probably that of the peristyle. It may be pointed out that if, as suggested, there were nine columns at the back partice, two rows of sculptured drums on that from would give half the number mentioned by Pliny. Then for the entrance partics there were nighteen also for the two front rows and the pair between the centre. It is now known that the temple of Samos had eight widely-spaced columns in front and time at the back.

W. B. TETHABY.

NOTE ON THE LILL STRAFFORD OF THE HEADS.

The difference of character between the head of Hierars and that of Thanace is well brought out on Plate VIII. It may be mentioned that Fortwampler says that draming hair is appropriate to under-world derives. The lair of the head, Fig. 10, is also noteworthy. It seems to be attenuing in the wind, and the frequent consequently belonged rather to a called than to a statue. It is said, in the Latalogue, to be of Paros sardle, but on compacing it with the fresh fracture on the policial 1200, which has similar large grains, the head and the pulestal appear to be of the same murble. Thus the evidence points to its having hear part of the column scalpures. Assuming that this was the case one is stawn to think of the Nereids of the polestal of whom there is a vidence to show that then tresses were blown out in this way. If it were so the Nereid was lacking hack over less right shoulder. In any case this is a 1-netiful fragment.

THE DOUBLE FLUTES

If we are seeking an authoritative solution of the constanding problems of ancient Greek music, it would seem that the most valuable assistance could be got from a consideration of the adder, insamuch as specimens more or less complete are to be found in plenty, stattered through the museums of different countries; in practice, this study has been found the most puzzling of all. Though many of the besies of such flutes have been found, the mechanism of the monthpiece, at once the most important and the most perishable portion of the instrument has naturally disappeared, and all hope of extraneous and from vase-pictures seems to vanish when we notice that in all the later pictures the month of the player, and consequently the mouthpiece of the instrument, is hidden by the \$\phi_0\rho_0\eta_1\eta_0\et

Still I hope to show that not all these difficulties are insuperable for example much of the mystery of the dopSeia disappears when we see two terracotta figures of dancers wearing the dopSeia without the flutes.\(^1\) Is then clear that this hand held the flutes rigidly in place, and we are able to form some conclusion as to the shape of the monthpieces; but this will

be discussed later.

Before settling down to a consideration of the positive knowledge attainable on the subject, it is however, necessary to brush away some of the colorels of speculation or absolute error that have gathered in men's minds. Any knowledge that we can glean can come only from three sources:—the writings of the Greeks, the rase-pictures and statuary, and the discovered instruments. And here I would plead strongly for the uncompromising rejection of statements by late or by Roman authors which are entirely uncorreborated by the other sources of information or which are contrary to known physical facts. As an example of the folly of such I need only cite the remarks of Vitravius on the construction of theatres; he were that in the auditorium were constructed jars resonating to the notes of the distonic, the chromatic and the enharmonic genus, and that the actor turned towards these jars as he was singing to increase the resonance of his voice. The evident absurdity of this does not affect the present question; but it is paralleled by the pretence of Varro? that

4 Res Bant, 1, 2, 16,

¹ F. Lepayment, Terroccules duliques, vol. 3, 19, 57 has, and vol. il. Pl. A &

one of the double flutes played the melody in unison with the voice; while the other played the accompaniment; remuneration beyond the dreams of avaries awaits the unsichall performer who will present even a colourable representation of such a feat. No practical musician would admit for a moment the possibility of two such flutes as are depicted on the vases being played simultaneously; still less that they could have rendered different notes at the same time.

The remark of Mr. Howard that the accompaniment played by the finto is admitted to have been higher than the voice part can only mean an octave higher. Nothing is clearer from the literary references to music than the absolute aversion of the Greeks from the hearing of two different musical sounds at the same time, the purists objected even to the octave and to an independent passage for flute or lyre when the voice was not singing. It is manifest that the office of the the flute was to play in unison (or at the octave) with the voice when singing was going on, and it is noticeable that the vase-pictures never show two flute players performing at the same time, also Pausanius in his mumeration of the 'personnel' of a Greek chorus,' uses the singular form an Apprix. Miss Schlesinger has shown has a pair of Arab flutes rigidly united, and blown by a single mouthpiece; but there slightly differing lengths give rise to a kind of 'vox lumpana' or tremnious effect that would never have been tolerated by the Greeks, with their delicate sense of pitch.

But a more serious and more insidious error, which has held the field for twenty years, is the idea that a small hole near the mouthpiece of the instrument called the σύμηξ or 'speaker,' enabled the flute player to produce on one to both of the tubes the upper octave above the fundamental notes. This has been asserted or implied by Mr. Howard, and quoted by the writer of the article 'Aulos' in the Encyclopaedia Britannica by Mr. Macran in his notes on Aristoxenus and I know not how many others. It is samply incorrect

The source of the error, so har as I can trace it, is in Mr. Howard's admirable study of the 'Aulos or Tihia' in the Harvord Studies in Classical Philology (vol. iv. p. 32). It pains me to impagn in any degree the accuracy of so exhaustive and conscientions a work, without which my own investigations could not have been carried far; but Mr. Howard must have been misled on a technical musical point.

In order to make the matter perfectly clear I will quote certains—

'As has been said above, the modern clarmet has near the mouthpiece, a small hole called the 'speaker,' which, when open enables the performer to produce without effort the harmonic tones (see) of the instrument. Although this device is not absolutely necessary, it is of the greatest assistance to the performer, especially in producing the first harmonics of the lowest tones.'

(The italics are mine.)

² Essed on Armbotle, Probl. six. 12.

^{· 1. 49&#}x27; 7

[&]quot; It is only fair to Mr. Mound to say that

this has every appearance of being morely a verted slip; unfortunately it has been largely built on.

Now every clarinet-player, every clarinet-maker, every organ-builder, every student of acoustical theory knows that a cylindrical tube excited by a reed acts as a stopped organ pipe, and will not produce any but the odd harmonic tones of the fundamental. To make the matter intelligible to everybody, if a certain fingering produces the note E, then the opening of the 'speaker' will change the note to the E twelve degrees of the scale higher. No auxiliary hole or mechanism of any kind in the world, will produce on such a tube with the same fingering the first harmonic, which would in this case be the octave E. The same statement applies with equal force to an oboc monthpiece if the bore of the instrument is cylindrical [as the normal Greek flutes undoubtedly were.]

It therefore follows that the scale performance on a pair of read-blown pipes, one of which used the speaker, having air holes such, would be as follows —



In order to supply the missing C. D. E and F. tour additional holes would be necessary, making a total of ten holes for a single pipe; and although the Pompeian flutes in the Naples Museum have ten holes, it will be shown later that they did not exceed the cetave in compass; even the one with fifteen holes would not have supplied the four additional notes desired.

Having now eliminated from the field of investigation some of the more obvious errors, we are at liberty to examine what is really knewable about the Greek flutes; and the examination will be confined to the normal type of the instrument; though it must never be fargotten that this type varied somewhat during the several centuries with which we have to deal.

First, with regard to the size of the flutes. A careful estimate of the relative length of flute and performer to the vase-pictures gives a probable length of tube rarying from 14 to 21 mones. This is confirmed by the dimensions of the extant specimens, and by considerations of playability. The longest of flutes exhanced have a length of about 22 inches, and the models made from them are beyond the stretch of hand and fingers of any but a tall and well-formed person.

Next as regards the form of the flutes. A careful scrittiny of the vasepictures will convince as that the typical addic consisted of a long cylindrical table (BôµBoξ) pieces with holes (τρυπόματα), and surmounted by two movable pieces, the one nearest the player's month (ôφόλµων) being somewhat come-like in shape, and the intermediate piece (δλμον) roughly pearshaped. The representations of flutes are provokingly rough in many cases, but even in the most "impressionist" of them, where the flutes are indicated simply by two pairs of parallel straight lines issuing from the month of the performer the division into three parts is almost invariably marked by two cross lines in the correct places. The Naples Museum flutes as photographed by Mr. Howard, show the two movable parts most clearly, the hookagened being seen to consist of a flaring mouthpiece, suitable for the insertion of a read, and the \delta\theta\theta\theta\text{s} of a pear-shaped bulb.

There can be no doubt that the reed formed an integral part of the mechanism of the Greek flute, for Pollux, in his enumeration of the parts of the flute distinctly specifies the reed (γλῶττα) in addition to the ὅλμος and ὑφόλμιος. Such a reed would not of course be risible in any picture, being covered, except for any part in the mouth of the player, by the ὑψόλμιος; and the term used for the whole arrangement (ζεῦγος) may well be deemed to have a relation to the double nature of the reeds employed, as well as to the twin monthpieces (or the two flutes.

For convenience we will assume that the γλόττα of the earlier fintes was a double reed of the oboe species (the point will be fully dealt with later) and return to the evidence of the vase-pictures. In the earlier vases the two flates are held at a wide angle and the checks of the player are riofently distended. It has been suggested that the φορβεία was introduced to avoid the necessity of this distention, but the theory is untenable, for in vase-pictures representing trampeters wearing the φορβεία * the inflation of the checks is sufficient to satisfy the most exacting.

It we can imagine the planta as completely enclosed by the isolator at this period, and if we remember that in the earlier times the flates did not extend beyond the compass of an ourse at most, we can readily conceive that the nature of the twin instruments may have been similar to that of another primitive instrument, a medieval one called the hauthors de Poitsa, the description of which in the Encyclopaedra Britannico is so breid and so upt to the present subject that I am tempted to quote it without in (I have taken the liberty of inserting the Greek equivalents in bruckets).

The hauthors do Poitou was a primitive above with the reed (ηλώττα) placed in a bulb (δλμος) forming an air-chamber having a raised slit (ὑφόλμιος) at the top, through which the performer breathed in compressed air; ¹⁹ as the reed could not be controlled by the lips it was impossible to play with expression on the hauthors de Poitou, or to obtain the harmonic octaves.

I believe that the earlier double fintes were both played with such reed mouthpieces, and the total compass of the pair was a single octave. In the vass-pictures the early flutes have almost invariably three holes each (a pair on vass E 583 in the British Museum shows three on one, and four on the other flute), and as a pure guess I suggest the plan of fingering indicated by the accompanying diagram (p. 93).

The difference in the lowest note of two apparently equal pipes might

The two morable phone are beautifully shown to Laboumant's Ferres-codes deligned, and it PLES.

F L. L. sec. 70.

[&]quot; Is 890 am'l B 591 (B.M.)

^{*} Vol. vir. p. 951

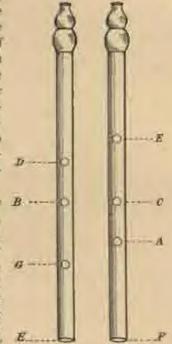
The 'sharper' of the Scattish bagpipes in blown on a similar principle.

be due to the different-sized reeds employed, and in this connection it is interesting to notice that Theophrasius states ¹¹ that both γλώτται must be cut from the middle shoot of the same reed, or the pipes will not be in time. The γλώττα cut from the upper end of the shoot would naturally be less substantial than the other, and might therefore be pushed a little further down the όλμος; but this is wholly a speculation, as also the alternate plan of fingering the notes, which latter suggested itself as a possible explanation of the fact that the two bands seem to be employed in the same region of the two pipes

At this period the two pipes are always held at a wide angle with each other, and probably the one furthest from the normal position has its $b\phi\delta\lambda$

pion entirely outside the mouth of the player, though just touching his lips. At any rate, these guessos have the merit of supplying a possible explanation of the manner in which a pair of flutes excited by double reeds might have been fingered and blown, without attributing to the Greeks any abnormal stretch of hand or power of lip. To the reader unfamiliar with reed instruments it may be explained that the compression of one side of the mouth necessary to produce a note on one flate is practically impossible if the other side of the mouth is occupied.

When the available compass of Greek music B -was extended beyond the compass of the octave,
we should naturally expect some modification to
the construction of the flate. As a preliminary
chronological observation, it is interesting to note
that the period 500-450 a.c. covers both the
addition of strings to the kithers, and, according
to the vase pictures, an alteration in the holding
of the double flates, which were now hold parallel
to each other, in such a way as to admit of

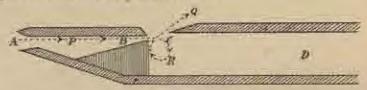


either thate being tingered by both hands together. A whole crowd of significant dates is included in this period; but some of them must be dealt with later

The extension of musical composition beyond the limits of the octave would evidently demand changes in the management and fingering of the advanced which were, as we have shown incapable of producing the octave harmonies of the fundamental notes. The first step would undoubtedly be an increase in the number of holes so as to make a whole octave playable on a single flute. It is much to be regretted that the date of Diodorns the Thehan who increased the number of holes, according to Pollux, it is not to be found, but doubtless it falls within this period

Judging from the majority of the flute-tubes found, we should conclude that at this period, at any rate, the number of boles was five or six. With this number of holes, as will be shown, the compass of a single flute could be extended to an octave. This would naturally necessitate the fingering of each flute by both hands, and accordingly we find that about this period (500-450 mg.) the flutes are represented as held parallel to one another, so that the two hands could manipulate either one or the other. But we are still no what nearer to the solution of the fundamental problem of the Greek double flutes; how to produce two octaves with two fintes of equal length and practically equal hole-distances; if both were cylindrical, and excited by roods. When we face this problem honestly and give it up as insoluble, we are on the highway to a satisfactory conclusion. The second pipe could not have been blown on the recd-principle.

The only alternative principle of blowing is that of the flageolet, flute, or the organ-pipe (all of which are identical in excitation, however much external appearances may differ). Although this principle is the same as that of the ordinary ponny whistle, I hardly feel inclined to applicate in this paper for a detailed explanation of it.



The breath of the player (P) enters the mouthpiece (A) and is constricted into a flat thin stream (B). As this strikes the knife-edge (C) it is out into two parts. The first and larger part (Q) issues into the open air. The other smaller part (R) trues to enter the tube (D), but is resisted by the more mass of our thorein contained, through which, however, it sends a pulse of compression. Having performed this work, and lost its force. it (R) is now dragged out into the open for by friction with the moving stream of the larger portion (Q) of the acr. Its removal causes a pulse of rarefaction in the air centained in the tube, and these two pulses together constitute a complete vibration of the our in the tube. vibrations, occurring many time in a second, produce the musical tone of the tube, and It is manifest that the larger the tube the more time the pulses will take to traverse its length, and therefore the fewer the number of vibrations per second and the lower the note produced. If the edge is not properly placed in relation to the air stream, too much or too figure air tries to enter the tube, and the pipe does not 'speak.' The main object of this explanation is to make perfectly clear that the breath of the performer does not enter the tube of the instrument but passes out through the slit into the open air (as anyone can convince himself if he plays a note on a penny whistle having first filled his mouth with smoke). The importance of this point will be seen later in connexion with an Illuminative passage of Pollux.

My attention was first drawn to this point by investigation of the possible way of blowing the Castellani bronze flutes in the British Museum, The identical nature of the moulding at the embouchure proclaims them a pair of double flutes but they are closed at the and pearest the mouth of the performer, and it therefore seems impossible that they can have been held at an oblique angle and played like a modern thate, especially as both hands have to be employed on each instrument. After much speculation as to any possible way of applying a reed monthpiere to the embouchure it occurred to me that they might have been blown on the principle of the flue organ pape, and that it was worth while to try to construct an experimental instrument on such principle. Accordingly a section of hamboo garden came was pierced with holes so that it would play as an ordinary modern flate. The section between the embouchure and the closed end was than slightly our down so as to form a flat surface a little lower than the plana of the imgering holes. Above this was lashed by means of waxed thread a prece of soft metal tubing, squeezed almost that at the end turther from the month of the player. The flattened end of the tubing was so adjusted that the stream of air issuing from it struck the upper edge of the embonehure, and the instrument emitted its notes as if blown in the ordinary manner. A sketch of the experimental instrument is appended -



A.—Meial inhing. B.—Flattened and at A. C.—Sharpened edge at antice home.
F. Body of flat. L. Lething of second chronic.

It will be curious later to see how closely this purely hypotherical construction resembles the plan of the actual avery proventages. For I am in a position to assert, and, I hope, to prove that at any rate from 400 to 350 s.c. the double flutes (loss allow) were of practically equal length but of different bore, the left-hand thurser one being blown with a double read like that of an oboe and the right-hand thacker one being played on the flageodet or where principle. The latter, of course, produced notes an octave higher than the equal lengths of the other pipe

The first step in the proof comes from an actual model of the Castellani flutes in the British Muscina. These two flutes are made of bronze, the Perfect (so christened because its apper and is undamaged) having six holes, and the Imperfect five. By the kindness of the Keeper of Greek and Roman Antiquities I was enabled to make accurate measurements of these, tracing the authors of the holes on paper land over the instruments themselves. A pair of metal flageolets was obtained und cut down to the requirite lengths; the existing holes were covered over and new ones hared in accordance with the measurements.

The Perfect' model was spoiled, but the 'Intperfect' gave what

appeared to be portions of the Dorian scale; but neither cross-fingering nor calculation of lengths gave any prospect of the production of the fifth note of the scale (15). However, when the upper octave was tried by overblowing and sattable cross-fingering a complete Dorian scale was produced.

A table of measurements and a diagram of fingeria, are appended; but as others will follow, it seems desirable to explain the plan of lettering adopted for all.



A. the embouchaves B. C. D. etc., the upper nupring-holes; U. the under thurst-hole when exhibiting; O. the open and

I have since found out that Mr. Howard gave very careful measurements of these and other flutes, and his figures reduced to the same plan of measurement are given parallel with my own; the slight discrepancies are mainly due to the fact that he measured to edges of holes and I to centres in the fingering diagrams the closed holes are shown by black dots, the open ones by black circles.

IMPERFECT BRONZE FLUTE

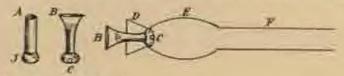
	District in on.		aves in oil. Diametris				Francisco von Korra:							
	J. C.	Hymnyt.	Hole	TH HIMA	E	F	ij.	A	10	C	D	e		
an	A185)	7-9	ī	10	-					6	o'	1		
AU	18:25	12:28	-1	b							13			
AD	17:59	17-55	736	*			H	0	K		Ħ	D		
AE	204	20.1	4	18	18		0	0	H		0	-		
(A.Fr	28.8	VU-25	5	7		Ö	D	0						
40	25	96.48	Ben	13	1/51	100	-					r		

The notes are a whole tone lower than our modern pixels; but as that is a semitone above the pixels of Handel's time no impropriety has been felt in describing as E a note of the same pixels as our modern D.

The immediate point in connexion with this finte is that no single or double reed could possibly produce the E and the B with the same fingering and as no other fingering will produce the B, it must have been blown on the σύριγε plan.

Our present problem is to reconcile this deduction with the obvious fact that the γλώντα or reed is an integral part of the mechanism of all αὐλοί, as is shown by many literary references. We gather from Theophrastus ¹⁷

that the γλώττα was made from a section of a reed, which included one of the joints. The most suitable part of the reed was the middle shoot; the under joint produced the γλώττα for the left-hand pipe, and the one further from the cost the right-hand one. After being submitted to continued pressure to flatten the open end the edges of this end were pared for the older flates; to a great degree of thimness, and thus would be preduced a reed similar to that of the modern above. This reed was inserted into the odoknow with the around or sharpened end projecting into the mouth of the player, and the playing was precisely like that of a modern obose. If the preceding explanation is not sufficiently clear for readers not familiar with wood instruments, the following diagram may make it more intelligible:—



A. menou of med, but off at a joint, J.

B. same section flattened and pured at spen end to produce exact a small hole C pierced through joint.

D, spidames, into which the passers it was inserted, and held rigid.

H. Anna, air chamber by which the viloutions excited by the real war- centrolled.

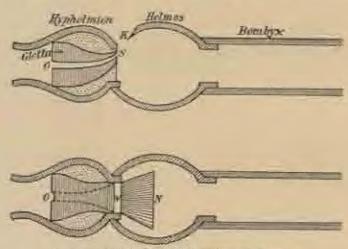
When the compass of the flute was extended beyond the estave, and the right-hand pipe became a subsect, a new method of sutting and arranging the yactra was adopted. The section of the read was cut and partially flattened as before, but instead of being pared to two kulfe-edges, it was cut off at a rather obtain angle, so as to form a narrow flat wind channel. This yactra was inserted in the opalation in a direction opposite to the old one, i.e. the ordina was furthest from the lips of the performer and adjacent to the obtain. A sloping channel was cut in the upper part of the dame, almost to a knife edge at the partion opposite to the ordina of the yactra, with a small open air space between and we have an arrangement exactly similar to a flagrolet or flue organ-pipe. As this arrangement is so very important in the realisation of Grock flute-playing, a diagram both in section and in plan is appended (p. 98).

If the reader untarminar with accountreal theory will refer back to the carrier portion of the paper, in will at once see how perfectly the definition of Pollux. It is the foregoing — E=1 & appropriate at appropriate at appropriate and discountrees to wredge. In the case of the syring you would use the expressions: to lead aside the breath through the mouth (steams, of the glotta), to turn it is a contrary direction, and to squander the breath.

The critical reader may by this time have begun to feel that there is too much hypothesis about the foregoing, but the following long and important passage from Theophrastics escens to not to give sufficient support for all the statements and assumptions made ":- Tipe be replie opains elements.

πρά Αιτεγενίδου μέν ήμες ηθλουν άπλαστως επ άρετουρον Βοηδρομιώνυς μηνώς του γάρ οὐτω τμηθέντα συχνούς μέν έτεσεν ύστερον γίνεσθαι χρήσεμου καὶ προκαταυλήσεως δείσσαι πολλής, συμμένεν δέ το στόμα τόν γλωττών, δ πρως την διατορίαν είναι χρήσεμου. Επέ δέ είς την πλάσεν μετέβησαν και ή τομή μετεκινήθη τέμνουσε γάρ δη νία ταῦ Σκερροφοριώνος καὶ Εκατομβαιώνος ώστεν που τροπών μικρόν ή ύπο τροπάς, γίνεσθαι δε φασερίενον τε χρησεμον και καταυλήσεως βραχείας δείσθαι και κατασπάσματο τὸς γλώττας ίσχειν τοῦνο δὶ άναγκαϊον τοῦς μετὰ πλάσματος αὐλοῦσε.

The suggested meaning of this (with expansions and explanations in brackets) is:— Before the time of Antigenidas when they used to play the flate in the natural manner (dwhdayse; that is with the phorea in its original position) the catting (of the result was seasonable about mid-September (when thoroughly ripened). For the result ent in this manner



Various and Regularover Secretary of States.

U, and of yactra. S. stage of flationed and channel. K. hulfer-law of Share.

becomes useful after an interval (for nexturing) of several years and needs much preliminary blowing (to determine the amount of paring necessary for best tone of reed). And the mouth (eropa) of the reed (global eloses up the two edges shrived up and close together) which is useful for the piercing tone (of the obose character. This gives a fairly clear idea of the original adder and its method of blowing). But when they changed into the artificial method (of blowing) as the serious principle just described and illustrated) the time of cutting also was moved. For new they cut (the plants) in the months of June, July, or August, about or a little before the summer solution (while still full of sap, and therefore less patient of paring. And they say it (the reed) becomes useful in three years (needs less time to mature) and needs fifthe experimental blowing, and the opening of the global retains its shape (remains constant); a matter of supreme importance in the 'voicing's

of a flagcolet-principle pape, and this is necessary to those who play with

Πρό 'Artiferidor supplies us with a most useful date. Antigenidas lived in the time of Alexander 356-323 n.c. and was an innerator. Presumably he introduced the plan of having both pipes played in the σύριγχε method (μετὰ πλάσμανος: so that he used the σύριγχες τέλειαι of Pollux' list of instruments. But we have evidence that the syrinx right-hand pipe was in use both before and after. Midas of Agrigantum in 490 broke his ζευγη, but won the competition by playing μόνοις τοῦς καλάμοις τρόπω συριγγος. which can only mean in reality that he used the syrinx pipe for the double octave as can be done by overhlowing blowing across the edges of the pipes themselves is unthinkable. In of Chies (died \$21) refers to the μάγαδες αὐλός, would play the upper actave. Aristotle refers to the syrinx pipe (κῶν κυτασπάση τῶν σύριγγος), as also Aristoschus (κατασπασθείσης γε τῆς σύριγγος), while in a succeeding age Plutarch uses the expression τῆς σύριγγος ἀνασπωμέντες which upplies a return to the older method of playing (ἀπλάστως).

This passage of Plutareh's is well worth quoting in exercise as it gives a key both to the construction of the flutes, and the manner in which they were played:— Lia t the lowe addies a crevereper Bapúrspos observat ad diá tí the objectos draoumpleys, than bifurtai tois objectos, kairo-pény de talur Bapúrse. Why does the thinner of the squal flutes sound deeper! And why when the syring hole [in the popBela] is uncovered do all the sounds become sharper [by an extero], and when it is closed again

they get deeper. "

I should like to have traced Mr. Howard's source for his view of the syrinx, but unfortunately the reference he gives cannot be found in England. From his words I guess that he rendered a passage to the effect that the syrinx was a hole near the mouth of the player; if it read that the syrinx had a hole near the mouth of the player, it would harmonise with the form-

going passage and others omitted here

[&]quot; Selidar, EII " iv 10, II. Salmers reading. " Schol. to Pimter, Fight wit. L. W Arbinsons, the St. The Field . Schol. S. Her. L. 23. " Kimpers more, 1680's.

The two fluxes were probably connected by metal bands, traces of which have been found by Mr. Howard, both on the Pompeian and the Castellani flutes.

The most valuable evidence afforded by the flutes is, however, with regard to pitch and scales. Without going into tedious details, it is necessary to point out that actual measurements of existing remains are not an absolutely safe guide. The length of the 55,000, and the exact point at which the obost reed began to ribrate are matters of fundamental importance. All Mr. Howard's results are visiated by the fact that he added a monthipiece some serum or more continuetres in length, thus altering both pitch and relationship of notes smitted. In the following details the actual length has been increased (except in the Castellam flutes, where it was not necessary, the embouchure being exactly known) by a small amount experimentally determined after many failures. The assumption has been made that if the model constructed played a recognisable scale, that was the scale played by the original instrument. It seems hard to imagine it could have been anything also.

THE 'PERFECT' BRONZE FLUTE

The original model having been speiled, a bamboo gurden cane was pierced according to the measurements and bored with a flute embouchure. This gave a Dorian scale in the lower octave (i.e. without overblowing); but it was rather flat in comparison with the 'Imperfect' flageolet. Accordingly another metal flageolet was procured, and accurately bared by my friend Mr. Kirchenwitz, an expert in metal work; the diameters of the holes being diminished by z_1 of an inch, to allow for the reverse taper of the tube. A just Dorian scale was then playable, exactly an octave below the 'Imperfect' one.

	Dura	Finicated for Xores:								
	n.e.	Howard	B	F	-0-	A	B	Q-	D.	E
ÁB	8.0	312	10							
AU	8.0	9%							0	
AD	10	1075					D	0		
AD:	17%	17.11			100	0		0	0	
AE	203	21 3			ä	0	0			
AF	-	13:5		0	-0	Q.	0	.0	0	
40	21%	24.5								

The next point of attack was the Elgin flutes in the British Museum, which are made of symmetre wood, are not a pair, and were probably found in a tomb near Athens. These will be here referred to as the Straight Sycamore and the Curved Sycamore.

The came for the 'Straight Sycamore was pierced side by side with the instrument, but many failures were made before discovering the exact affectance to make for the read. Finally the model played a Lydian distonic

scale, and its nominal C was a fourth lower than the nominal E of the Dorian flates (as theory demands),

STRAIGHT SYCAMORE.

	DISTAN	CI IS ON			F120940	EIND F	na Ko)	E+2					
	d, n	Howard	12	D	46	Y	a	A	H	12			
ÄH	4-7	12							0	0			
AU	19	10.4						0	0	0			
AC	7.5	144					0			0			
All	1914	17.3				0				1.0			
AK	20 5	2017			0			0	0	1.0			
37	2018	24'8		0				O	0				
AO	82.5	31.12											

The Curved Sysamore on account of its fragility and shape, was not suitable for my methods of measurement; but, having become assure of Mr. Howard's measurements and their close relation to my figures, it seemed worth while to make a model from his published details, aching 1'3 cm, for the mouthpacer as in the former case. A deleians organ pipe of the narrowest obtainable gauge was procured and the holes duly bored. It was then found that all the notes from D up to B were quite in tune with each other, but the low C was too sharp, and the upper C was not obtainable by any fingering. The addition of a sidding card-board extension to the lower end of the pipe enabled me to determine the correct length for the fundamental C, and the upper C was then quite obtainable by the ordinary fingering for the modern flute. It therefore seems likely that the instrument originally had a detachable bell, such as charinets and oboes now have, and such as a shown in some vass-pictures. As the fingering is exactly that of a madern flute, it is unnecessary to give it.

CURVED SYCAMORE.

	Distass	F 126, 1796.	
	Adjusted	Howard.	Nete
AB	141	12.4	11.
AB	37/3	10/2	A
46	20-11	19.3	15
AD	241	2214	18
AE	27:6	24-0	- 6
42	32%	31/5	D
AG	410	95-8	0

It is perhaps, hardly necessary to say that the actual pitch was considerably lower than that of the 'Straight Sycamore'

Further confirmatory experiments must be compressed into brief space. though valuable additional results are suggested by some of them. The next objects of attention were the four every flutes uncarthed at Pomponi in 1867, now in the Naples Museum, and measured by Mr. Howard, whose figures are herefollowed. Those numbered 28881 and 76893 are apparently a pair, or, if not single members of two identical pairs. Number 76893 has oleven holes: these were hered in a hamboo fitted at the upper end with a bassoon reed. The fingering was exceedingly difficult, on account of the great length of the instrument; indeed, the lowest three holes were quite inaccessible to me though a larger hand might reach them. The holes not required for a chatonic scale were then plugged with cork, roughly representing the perforatist metal bands on the original instrument, which could be turned round as required either to open or to close the hole. The model then gave for the upper holes six upper notes of the Doram scale, while the lowest but one (F). which I could not blow, was represented by its third harmonic (C). I have therefore no hesitation in saving that the compass of the flute was a single octave, that the extra holes would probably produce the nates of other scales, and that the E was in tune with the Castellam bronze flutes of the British Museum (the putch of course being an octave lower). In the appended list of lengths measured and notes produced by blowing, the notes that have not actually been sounded are marked with a query. Notice is especially called to the probable Q5 which is provided on the instrument; this is of the atmost interest as it would play a note written in the Phrygian Hymn to Apollo which was not included in any of the operquara which have come dawn to us, though the interpretation of the letter-sign used is quite clear on general principles.

IVORY PLETE FROM POMPER /76892:

Hain	Increses es co-	* Som			
AH:	2114	10			
48.	3614	10.			
AC	22610	7(\$(0)			
AB	291	-0			
AE	32/14	II .			
AF	84.8	- 89 (0			
10	3810	A			
All	22-6	10\$ (T)			
AT	424	XI.			
Ad	4670	FEI			
AK	48	Fin			
AO	4912	Em			

The consideration of the probable results of the antried holes in this model gave rise to the suspicion that the other holes were required for different scales (harmoniai), as it is abundantly evident that the Greeks had no idea of our modern chromatic scale. As the manipulation of an experimental instrument fitted with a double reed is a somewhat perform matter, it was decided to construct a hamboo model of the Pompeian flate No. 76891, with a flute embouchure, and to fit the holes with movable leather bands in imitation of the metal bands of the original. The model thus constructed tended in confirm the suspicion, but two difficulties detracted from its usefulness. In the first place the extreme length of the instrument made its fingering in a horizontal position quite impossible for the farthest bales; and the leather bands worked have after being turned two or three times. Still, although insuitable for demonstration afterward, and too evanescent for systematic record the notes obtained rendered is extremely likely that the original, which had eleven holes like No. 76893), would play the Doring. Phrygum, and Lydian harmonias, and was therefore the Panharmonion referred to by Plato."

It remained therefore, to seek a record of a flute with many holes, but of a more manageable size. This was finally found in a flute described by M. Loret ²⁴ as belonging to Sir G. Maspero. It is said to have been found in 1888, at Albumin in Egypt (the ancient Panopolis). It may be objected that this is travelling beyond the bounds of Grook music, but the remarkable similarity to the Castellani flutes of the illustration green together with the identity with the Panopolan flutes of the illustration green together with the identity with the Panopolan flutes of the innuber of holes, seems to point to this being a flute of Hellenic origin; if archaeologists decide otherwise it is a strong argument in favour of the Egyptian origin of all Greek masse, personally, such a decision would appear to me to conflict with a great mass of other evidence. M. Laret hamself says: La flute appartment is M. Maspero sort absolument de Pordinaire, non sentement par la forme de son embouchure, mais encore par la disposition de ses trons.

^{*} Reguláte att. 10, 300 c. Ta be and conserve a mingrán regulática els rio mátics à el retra anticipalitation, est elem els manufactus abbail

repaire form along an fith refers, and also per HIL of one.

L'embouchure presente donc la forme de deux trancs de cône ayant leur sommet commun et dont l'un a une base circulaire tandis que l'autre a une base presente triangulaire.'

The method of investigation adopted was as follows. As a preliminary a model was bored with the holes which most nearly corresponded with those of the Castellam flutes, which are almost precisely of the same length. This model, as was hoped, gave a fairly correct Durian scale. With this amount of solid ground to stand on, one was encouraged to bore a bamboo with flute embouchurs and the complete set of cleven holes according to M. Loret's measurements, here appended.

MASPERO PLUTE.

500		LENGTH IS Cornwarmen				
1.	An.	14				
2:	AO	08983				
8	AD:	38 dl				
4	A-K	10 0				
E	AU	129				
il	AT	11 1				
ž	Adl	16.2				
8	AH	18-8				
60	AU.	16-9				
10	At	20 u				
11	AJ	21.7				
	AO	23.2				

On this model it was possible, by covering the proper holes with wafers (afterwards by stopping them with wooden plugs; to obtain three fingerable arrangements of holes on which could be played the Dorian Phrygain, and Lydian harmoniai respectively. The final step was to take a metal flageolet, fill up the existing holes, and bore others according to the given measurements; next to cover each hole with a perforated sliding metal band, as was done with the Pompeian flutes, by which a hole might be mechanically stopped or left open. The holes left open to produce the different harmoniai are specified here, as there are two distinct points of interest with regard to them.

Hanno	414					Mara	S OFFER	(II)		
Dorige .			3	8	a.	3	1		-10	11
Parggum .		40	- 1	2	-811	15	- 1	-	80	
		91	3	2		4	4 7		p.	

[&]quot; it may be mountained incolonially that no reproduction of any of the finites gives a true affect subset all the index are based.

The first and most obvious fact is that all the holes are needed; and hole nine which appears to be most awkwardly placed for the right thumb is only used when ten and sleven are covered by the bands, so that there is no temetical difficulty in covering the holes with the fingers for every scale.

The other fact is so illuminating with regard to the feeling of the Greeks for just intonation (the matter in which their pre-eminent delicacy of ear is really displayed) that it deserves a rather more detailed treatment A glance at the table of measurements will show that the ninth and tenth holes are but a continuetre apart; so close that if both were on the same side of the instrument they could hardly be fingered. Now the uncovering of hole ten produces the second note of the Phrygian harmonia, whereas if we open hole muc instead we get the second note of the Lydian harmonia; and those familiar with the intervals of Greek scales will at once remember that the first step in the Phrygian scale is a minor tone, and the first in the Lydian a surjer tone. This one point is conclusive in proving that the Greeks recognised the distinction between the major and minor tone, and therefore could not have used Pythagorean intonation.

This series of experimental reconstructions does not claim to be in any sense exhaustive; there are many other possibilities of producing more notes by cross-fingering, or the partial uncovering of holes; but it is submitted that if the scales herein detailed over be played on the module, there is an overwhalming probability that such scales were played on the originals.

No thite playing the Phrygian tropes has been seen by the writer, but M. Loret describes a flute in the Turin Museum (No. 12 in catalogue) which gives a Phrygian scale, if the speaking length of the tube be taken about three centimetres less than he gives it: It is impossible to say without seeing the actual instrument whether or not this reduction is justified.

To sum up, it is claimed that these investigations show :-

- 1. That the lowest note of the normal octave of the Docian tropes, the Harmonia, and the enharmonic genus was about a tone lower than our modern E (continental prich).
- 2. That the Dorian Phrygian, and Lydian tropol (and by inference the remainder of the fifteen) really had the relative pitches suggested by the notation. The 'Curved Sycamore' hints that there was also a Lydian scale of arbitrarily low pitch, possibly the 'Chalaro-Lydian' apparently alluded to by Plate (Rep. 399A).
- 3. That the Harmonian were actually in existence and in use by the Harmonikol.
- That the Greeks used true intensition, and (by inference) neither the Pythagorean theoretical system nor (as a rule at least) the quarter-tone enharmonic.

J. Cunns.

the may be as well to reiterale that the Harmonial were a set of scales beginning on the more pure tout with differing intervals, while

the Trapet are playable on the white sales of a prime beginning on illiferent notes.

A CUP SIGNED BY BRYGOS AT OXFORD

PLATE IN.

A CONTRETE drawing is reproduced in Place IX, of a kylix! In the Ashmolean Museum, signed on the handle BPVPOS EFFREN. Apart from the interest of its signature, the vose is important for its subject, which appears to be rare if not unique. I have, however, been unable to determine with corrainty either subject or authorship, and shall content myself with trying to establish a sound basis for further investigation, and suggesting features of probable significance.

The kylix is large, with a comparatively small design in the interior. The chief measurements are: height 12 cm. diameter 33 cm., breadth across handles, 41 cm., diameter of inner circle, 14 cm. The cup is fregmentary, but the existing surface is well preserved, and the black, which is laid on rather thickly in parts, is deep and glossy throughout.

The interior scene has a border of stopped macander in sets of 2, 3, or 4 broken alternately by cheques squares and saltiro squares with dots at the ends of the cross-arms. The two scenes on the exterior have no burder but a reserved red line above and below. There is a fragmentury palmetre design beautiful one handle.

The scene in the interior. Plate IX, is practically complete except for a gap at the bottom of the circle, which, though it leaves the figures interest, possibly deprives us of some class to the interpretation of the subject. All that is certain is that the two figures are kneeling on some level surface, the horizontal line of which marks off a reserved segment of the circle with depth equal to about a quarter of its diameter. The horizontal border of egg and tongue suggests, though it does not invariably denote a definite part of the scene, such as an alter.

The attitudes of the figures are clearly and carefully worked out. The left-hand warrier has his back turned to us and looks out sharply to the left drawing his sword from the shouth; has left knee is raised and hent, and the foot rests on the horizontal line. The right was apparently slightly bent at the knee, and in profile—to judge from the drawing of the museles of knee.

Given by Mr. E. P. Warren of Lower I small photograph of the function appeared to an individual to the Keeper of the Additional Section of the Concession Fortunesses, Massem for permission to publish the same. A 1911 p. 13.

and upper leg (at would naturally fall behind him, is in front of the horizontal line, but whether the weight rests on it or on some object at a lower level, is not clear from the fragmentary state of the drawing.

The position of the right-hand figure amounts practically to a reversed view of the other, except that here the right knee is raised (repeating the line of the other's left) and the left leg is drawn in bold foreshortening with the knee bent back, short of the level, and only half hiding the frontal foot, which continues in an almost vertical line to the ground. The foot rests on the toes—5 small circles overarched by a black line convex to the knee, indicating the sharp bend at the toe-joints.

Both men are bareheaded but wear an elaborate cuirass over the chiton; both draw their swords turning their heads sharply in opposite directions.

Below the horizontal line, at the edge of the break, are two parches of dulf brown colour.

The exterior (Plate IX.) is more fragmentary but also more capable of being recontracted from familiar types.

Side A. Arming: beginning at the signed handle, from left to right. Fragments o, b, c. Group of old man leaning on stick and youth putting on his greaves. The rise of the handle-curve on the left of (a) indicates the position of the fragment: the knotted stick connects it with fragment (c), and the attitude of the stooping youth? on the two fragments determines the position of (b) with greats held ready to put on. At the right of freg. (c) are two profile feet (to L) overlapping considerably. The right and force most is preserved up to the knee, with a greave of the left only the beginning of the greave line 'relief' in visible, along the edge of the break. A bow, apparently with no string to it, hes horizontally agress the next of this figure. Above, on the right of fings by is the frontal body (to the waist) of an armed warrior whose head is turned to the right, i.e. in the opposite direction to that of his feet. With his raised right he holds a spear slantwise over his shoulder, a shield (emblem: bull) hangs on his left arm, and a sword at his side; the cross of his helmet has a long tall-piece hanging down on the left as lar as his belt. Projecting into the round of his shield is an angle of drapery, which probably belongs to a figure of the next group.

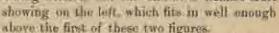
Fragments d c form a larger group or series of which the upper half is mostly broken away. Two profile feet (to t) are the only indication of a figure on the left. The other figures are, from I to t,; a woman in a long chiton, frontal, with a shield apparently leaning up against her side; the warrior to whom it belongs stands next with I foot frontal, wearing growes. Behind his tout and those of the next figure is one of those small, emedally executed studies of armour for which Brygos and Dours seem to

^{*} Op madler agains, on Dears Vienna caps Fortwo-Residebid, but (A) as I on the Brygon place, Gerbard, Joseph as Viewbliller, 269-70 (Cational)

[&]quot; On Palebonks, H'his addicates Laborates

p. 167. Fig. 110, which a abilit brain against the warrier a manufe; against his knee on a Assar by-Iria, Econom (pds7 Couldings), against his agent on a lokythese in Oxford, Cp. F.-R. itil et alice.

have had a partiality: a shield lying on the ground and a holmet standing on top of it. The first shield is covered on the convex side with a scale pattern, the second with a chequer pattern—both of which we found conspicuous in the armour of the warriers on I. The remaining two figures on frag. (d) are drawn from behind and with no incompetent handling of the problems involved. The positions of the feet deatly suggest the uneven distribution of weight in an easy standing posture; the left-hand figure stands on tiptos. On the right of the last figure is a shield seen mainly on the in-side in three-quarter view. We have still to mention a fragment (s) with the back of a warrier assuring corslet, and the end of a belief-crest



Under the handle (frag. f) palmette and seroll design unterrupted by the foot of a running figure belonging to the first group on B.

B. Frag. g shows the rise of the handle on the left.

The fragments of it together with be (which I venture to place here though it is not included in the actual restoration of the vase) form the first group in a Buttle between Greeks and Persians. A tircek makes forward from the left, holding out a shield, his



You I - Triumest &

right arm apparently mised from the shoulder to strike. On h (Fig. 1) the helmet with long crest and the neat linear drawing of the corslet are styliatically of a piece with the rest of the kylix; and allowing for the loss of a small wedge-shaped flake between the fragments, the curve of the surface no less than the attitude of the figure formed a continuous whole. The curious projection behind the helmet is probably a broad source flourished over the left abundler, after the fashion of the case. Hartwig, Mristerscholen being Edinburgh and many other examples. So far as I can judge there seems to be no talk! technical ground why the fragment should not be macried here.

On (i)—which should be placed rather nearer to (g)—we have part of the Greek's shield, and then immediately the frontal body of a Persian moving to the r. with right arm mised. Part of his decorated leggings appear on the edge of fing. (g)—On his right is the sleeved arm of a second Persian grasping a sword hilt.

At this point we come to a large gap of about one-third the length of the side; the remaining third together with the signed handle consists

A. P. Louisel for Atm. cylin in E.H., E 60 (Bibl a Loui, p. 218, rediana Barrels, Membershafta, p. 550), and Garnani, J. F., Ph. 200-25; also Larren, Free Frents, Pl.

XII, ; the motive positive live times in Dongie's Visuas vop (F.-R. liv., twos with the shield on such

of a large fragment (k), and a small one above it (j) which are abviously contiguous.

On the extreme left of this group is a Greek (drawn in three-quarter back view) who rushes at an opponent on his left with levelled spear. He strides over the outstretched \(\tau\), foot of a wounded man, who probably lay half prostrate, filling the gap between the Persons on the left and the Greeks on the right.

There remains the most interesting group on the exterior of the kylix: a Grock and a Perstan in single combat. The figures are strongly contrasted no less in attitude than in arms and accountements. The head of the Persian with striking profile and wearing a Phrygian cap is one of the few preserved on the exterior. But the most angular feature is his great obling wicker shield which is so far the only known parallel to the one illustrated in Jahrbach 1911, p. 281 (Schröder: Ze Mikons Gemälden der Marathonschlacht in der Ston Politike).

A few notes us regards the technique.

The drawing is natinly in thick black relief with a spaying use of colour the face profile, eye, sar, and nestril, the upper edges and lower strokes of the beard, the main lines of armour and drapary, the markings of greaves, generally the ornaments of the shield, the ankle and the mark- at the back of the knee = are in black relief.

The ends of the hair thin off into dark brown glase, the minor lines of drapery, the inner markings of the body, and once the interior of a shield, are in brown. We sometimes find the brown musculature in the log side by side with the black greave-markings:

Red paint is used for the circlets of the two warriors in the interior, and for the strings which the their shoulderpieces in from

The hair contour is reserved, in one case the hair has a single line of raised data on its outer edge, a double row against the face, making a sharp angle at the temples.

The subject of the interior scene (I) presents an attractive problem. The two warriers fall into none of the regular types or classes of trasinteriors. They are drawn with a semipulous care for the disposition of their limbs and an eye for significance of attitude; they appear to be the expression of a very definite idea in the mind of the painter.

The interpretation really turns on the meaning we attach to the reserved segment and the line which cuts it off. One is tempted at first sight to assume that it is the top of a wall or fortification on which the two warriors kneed in an attitude of suspicious and watchful defence. Yet we have abundant examples of the use of a reserved segment simply for convenience in the design. Frequently there is a horizontal burder of egg-and-tongue pattern. In certain cases it is not clear whether or no the line has a bearing on the scene. On a white cup in the British Museum

I for the figure ep. Berlin Inquatementry. type among the 'Molian' relate in the Taraticphard, Technologie, a -at, and F.-R. xxx. poets Bloom of the British Museum. Disapprais, etc. It is interesting to find the

(DI) the feet of the built carrying Europa rest on this line. On another fragmentary white vase (Beundorf Gerech v Siell Vosenbilder, Pl. XI.2) where Heraklez lights with an Amazon the sole of the Amazon's externed fout projects downwards across the line

On a kyllx at Layden, on the other hand (Roulez, Pages Perals, p. 1, Pl II. a segment marked off by a time, with egg-and tongue border beneath it, closely represents ofther an alter; on which the goddess Athena stands. or the basis of her mage. It is worth noticing that neither the goldess nor har votary stands actually on the line, but their feet and legs are cut off by it some way bolow the knee. On the exterior is a very similar group, showing the two ranks of the structure-a slab projecting over low perpendicular sales and at the left a votary standing on the groundline and stooping slightly to lay his offering on the slab before Athena Serpes. The possibility of an altur is all the more to be considered as it gives the most plausible explanation of the two brown dants. Also, the egg-and-tongue border is a very commun feature of altars on vases.

Neverthelies the assumption by Mr. Benzley (J.H.S. 1910; p. 65), that the some is practically a reproduction of a Kleephradean subject - two warriors fighting at an altar - seems to me premature in the face of (1) so cital a discrepancy as that which he admits, in that they are in one case apponents and in the other allies; and (2) the stronger a prince probability deduced as it is from the figures themselves. The men appear to have just elambered on to a wall possibly we are to see the nounded ends of laddershafts in the problematic daubs aforesaid) and crouch in attitudes built aggressive and half defensive, as men would in a position at once so commanding and sa exposed. In bold mood one surmises a seems from the Personn War in keeping with the subject of R on the exterior. As the Greek attack on the Persian camp after Plataes it would be in contemporary cass-painting, a unique expression of the patriotic rein. But according to Herodotus (ix, 67-70) the Tegeans and not the Athenium were the first to scale the walls of the Persian camp,—an incident which an Atheman patter would not be anxious to immortalise. Moreover two men with bare hours and no shidds, looking out in opposite directions with swords halfdrawn, do not suggest the endden storming of a stronghold after battle so much as some stealthier form of aggression or even watchful defence

We fall back on a subject familiar in Greek art, the expedition of Ody was and Diomedo to carry off the Trojun Palladium. True there is no pulladium in the drawing nor any hint of its relevance to the scene; nor is there any representation of the subject perfectly analogous to this The nearest parallel perhaps as a black-figure scene on an amphora, Joek Zeit 1848, Pl. 17 2, where two warriors kneel side by side, in full armour, holding spears and their heads are turned in opposite directions.

Bright the surpress flows to be at that was something throughouse I write the representation ties after, the absence of any similars would have a far too parpose and and comprehensive to

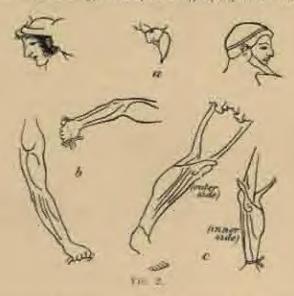
make the offer absorate this street, my. Is a more exceept from a completer sensor

Our painter, following the tradition has been at some pains to distinguish the two heress by many small traits (e.g. hair, sheaths, condets, etc.); he has decided for himself how much it would be practical for night-raiders to carry in the way of arms and impedimenta. The result is a certain directness and vitality in the conception reminding one of the famous Sessas vase in Berlin (F.-R. exxiii.) and more remotely of the Penthesiles motive conceived at its greatest moment for the first time in the Munich cap.

We have still to take up the challenge of the signature. It must be allowed in the first place that the work of the painter is not necessarily confined to pieces signed by him-still less to those with the Firm-mark of the potter; and conversely that the potter's signature thice not imply the work

of one painter only.

In the Winner Undeachlötter are published (C.Pi 7, 2 a-l) the fragments of a vaso with RPV [you exulpreven Type dev] in a self and min style



totally unlike that of the great Histopersis (Louvre, and Iris (E.M.) Brives insigner caps. To the anonymous master of these, whom for convenience we call Brygos, Hartwig, following others, assigns a great quantity of work ranging in type and quality from the most advanced to the most primitive of the eight signed process in his list.

It is hard to believe the Frankfirst kylix best reproduction Mon. d. Inst. 1850 for, G.) to be even an early work by the same hand; it is lowever to this that our cup bears, superficially, at least, a docided resomblance, while it differs from the maturer work in several characteristic and peculiar details.

In the style we associate with Bryges the nostril is condened as in (a) in Fig. 2. the muscles of the leg (inner or outer sub-imissriminately), and the muscles of the upper leg as in (a); the muscles of the arm, as in (b). In

the Oxford cup the nestril is thicker and blacker of a different shape and differently placed. The muscles of the inner and enter sides of the leg are regularly distinguished; in the lower arm there is a curious short stroke joining the ends of two parallel lines running down the arm. As we saw, the use of colour is very sparing, in contrast to the lively colouring of Brygan designs.

The features with the notable exception of the long narrow Brygan eyes appear to be blunter, yet without the engaging sanciness of the Brygan snubness, and we miss his fine spirited limb-contour. The scheme of the interior (roughly two aprights on a homeontal line) is as unlike the proper Brygan schemes as is the pseudo-Brygan piece Murray, Vass Designs in the

British Museum, No. 48).

In the border, the saltive squares with dots at the ends of the cross strike one as un-Brygan; but they occur in the Frankfurt vase (above), which has further in common with ours a certain slift serial arrangement of the figures on one side of the exterior, and a liberal use of scale and obesper patterns for armour. The third figure on the left on the Triptolemus side, a man standing with head to r. body frontal, and feet to this a curious analogy to the fragmentary figure of a warrior in the first group of the Arming Scene.

In both—as contrasted with the Weirzburg comes (F.R. 50)—the outer line of the reserved hair-contour is smooth and does not follow the auditat-

ing lim of the hair

A broken kylix in the British Museum (E.73), assigned by Hauser and Beazley to Kleophrades, has an original presentation of the Peleus and Thetis motive in the centre surrounded by a zone with Nercus and seanymphs, with similar blackness of line; three feet on one side (B) are drawn in foreshortening, one leg from behind with black knee-marks —, the leg of a kneeling figure has the muscles marked as in r; and in the lower part of Nercus' arm the two almost parallel brown lines are apparently joined by a short trake at the top exactly as in the Oxford interior. The blant drawing of nose and lips, the drawing of the ear, the occurrence of scale pattern in the interior are further points in commun. The drapery edge however and the pattern of the border (with alternate chesper-squares) are totally different, and belong rather to Domin' style. This coincidence of certain details is significant in view of the correspondence (pointed out by Mr. Beazley, J.H.S. 1910, p. 64) of our vise with another Kleophradean piece, as yet impublished, in Athens.

Quite apart from the semewhat doubtful connexion of the interiors, discussed above, there is a striking resemblance between two scenes from the exterior representing arming. The figures in both are marly all seen from behind and the foreshortenings of the fost are the same. Mr. Beazley concludes from the partiality of Kleophrades for back-views and toreshortenings that he rather than Bryges, was the inventor of this scene.

Again, in the famous Biompersis hydrin of Kicophrades, the figure to the right of the fallen mun, a young warrow (attacked by a woman with a postle, not as Furtwangler says as he is in the act of spoiling the corpus, but as he

falls on one know already wounded, as the broken eye indicates) strongly recalls the artifude of the right-hand of our two warriors. The kneeling figure with one leg frontal and foreshortened is by no means a common one in severe Red-figure, although must as in Kleophindes, we do find several examples of it The use of the figure here is perhaps too deliberate and undependent to be accounted for merely by transference of type ' cp. Zahn, Ath. Mitth. 1808. p. 61 n.) but may perertheless have been suggested by the Khophrudean motive. Newhere else in Brygan work is the influence of Kheophrades so apparent, and it is partly for this reason that I am inclined to separate the Oxford rase from the main group of Brygos' pieces; partly also on the ground that the divergences from the usual forms are lardly attributable to a variation of manner; and certainly not to rapid or sketchy performance, of which we have, in the Macnads and Silens (Hart. Cab des Méd. MS. axxii) an example far more in Bryges' temper. Compared with the Frankfurt vase it is too able and masterly to be accounted for, with that, as an early work; and should probably be assigned to some advanced member of his school, to whom also we might perhaps attribute the Frankfurt vasc as a youthful piece.

M. A. B. HERFORD.

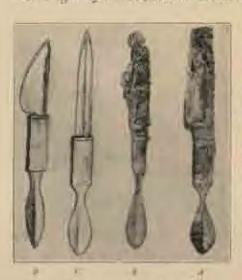
sharply back at the knee, and apporting the apper by and thigh. The hop-chaped must making would then indicate the belying munits of such an attitude.

^{*}I know of me either figure where the know, as hare, does not cree on the ground, and the remeal hare continues the line of the upper leg downwards. Possibly it is an ettempt to draw a equation figure with the lower by band

NOTES ON A GROUP OF MEDICAL AND SURGICAL INSTRUMENTS FOUND NEAR KOLOPHON.

[PLATES, X-XII.]

This set of instruments and the large beaker were found about three years ago near the site of Kolophon in Ionia.\(^1\) The objects are thirty-seven in number. With two exceptions all are of bronze. The blades of the Enivery were originally of steel, but this metal has in each case been almost destroyed.



Tot 1 SUBMICAL KNIVES

by exidation. The date is uncertain—it may have been before the Christian era but is more probably the first or second century a.u. The glass beaker belongs to a type which is said to occur so late as the fourth century.

I Knives.—In ancient times knives were either of stone or of breaze. The superstitious fear of iron lingered even into the Christian are. It was unlawful to introduce an an iron implement into any Greek temple. Broaze on the other hand had a special parifying virtue. In Rome, it is well known that no iron was allowed to be used in the construction or repair of the Subhician bridge. No Roman priest might be

chaven by an troo razor or trou sensors. I montion this apperstition as possibly explaining a peculiarity to be observed in surgeons' knives; it will

They were farmerly in the presence of the late Afred O. Van Lenney, featels Vice-Possed at Suryrea, whose Rib-long connection with the large estate owned by his heally must Kolophan gave him exceptional knowledge as to finds made in that district. He told not that he know those objects to have less uncertaint all legislate, and long before the spring of 1912, at some open in that neighbourhood;

annelly where this was he did not know. His straighthus meanary makes this, in my updates, a satisfactory continests of origin. The set belongs to the Johns Hopkins University to Baltimote, U.S.A. (Note by W. H. Burnaller,)

Blustarch Penergia per, cuipub, xxxx. 7.

Behaliset on Theoretta it. 101.

Macrofane, Sat. v. 18,

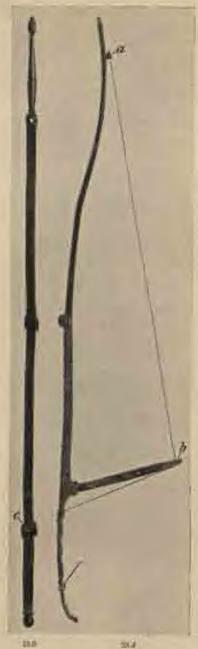
be remembered that surgical treatment was related to the worship and ritual of Asklepios.

The illustration in the text (Fig. 1) shows the remains of two knives, A and B (copied by permission from the excellent treatise on Greek and Roman surgical instruments by the late Dr. Milne). The steel blades here remain, though much altered in shape by rust. C and D are restorations showing two out of the many types of surgical knife. It will be noticed in these four cases that the handle consists of a squared central part, beyond which, at the part remote from the steel blade, a leaf-like projection extends. This is in fact a sort of bronze blade, and the two edges are in some cases fairly sharp. Whether this part of the instrument was retained for use as a sort of blant dissector, or whether it is a ceremonial survival of the ancient bronze carting blade, may be uncertain. I suggest the latter explanation. For the operator it was not a comfortable or convenient handle. C represents a double-edged scalpel or ψλιβατόμον οι κατικάς. D is the convex angle-edged scalpel or στηθοειδής.

This collection includes six knives of the above type (Plate X. Nos. 1 to 6). In 5, which is shown in profile, the groove is well seen to which the base of the steel knife was secured. Nos. 7 and 8 are rounded handles, and 9 is another form of the same formerly holding some steel instrument, perhaps a knife blade. Probably among these knives may have existed the sameliker, a long slim blade, and the shorter and stronger Autoropes. These objects vary from 75 cm. to 125 cm. in length.

- 11. Forceps.—No. 10 is a large and beautifully made instrument 19.5 cm. long. The handle is in part formed of two delphins. This may be an example of the woxewecerry; or polypus forceps. The bite of the teeth is strong and close. Nos. 11 and 12 are two pairs of strong torceps possibly rouxoxadic or cullation pincers (14.5 cm. in longth) but applicable for many purposes. In each case the one prong has a semicircular prominence which accurately fits a corresponding hollow in its fellow. No. 13 is a lighter pair one prong of which has been lose; 14.2 cm. in length. No. 14 is a strong barrayon or bone forceps, with arrismically modelled handles. The blades present teeth which grip firmly. Length 22 cm. This type of forceps was often needed for the extraction of arrow and lance heads.
- III. Elevator.—No. 15 appears to be a powerful elevator or lever, the vector of the Romans, for mixing depressed bone. One end has been broken and is lost. Length 15-0 cm. Complete specimen shown in Gwilt, Gewheler Chir. i. Pl. II, n. 41.
- IV. Tenacula.—No. 10 is a beautiful example of a double άγκιστρον or sharp hook. The handle is formed of turned bronze. The two limbs twist round one another spirally. Size 165 cm. Nos. 17 and 18 are two single sharp hooks both decorated. Size 163 cm. No. 19 is an example of τυφλάγκιστρον, the blunt book. Size 116 cm.

V. Catheters. The xaderija or fiabilia namen of Latin writers.



Fin. 2.—Dank Bows [Scale].)

No 20 in Plate XI, is an excellent example of a full sized male catheter, having an aperture or eye at its lower point and a projecting edge at the upper and as in modern instruments. It has the usual S-shaped curve commonly adopted in Gracco-Roman times. Length 32-2 mm, breadth 6 mm. No. 21 is a portion of a smaller catheter, 16-5 cm, in length, 3 mm, bread.

VI. Bronze Box.—With lid. for small instruments or medicaments, In emby 2-2 cm. (No. 22).

VII. Drill-Bow (1).-The instrument numbered 23 has been somewhat difficult to explain. In all probability it is a folding drill-bow for driving a trophine No. 23.4 in Fig. 2 shows the instrument spened out and the cord attached to und strutched between the two npertures at a and b. The total length of the how is 39 cm, and the length of the cord 26 cm Hippoemies, Colsus, Calen, and other writers speak of the use of this instrument in injuries and discuses of the skull and larger bones. The drill itself, the uplan of Hippocrates and τρύπανου of later writers, a straight steel or bronze rod, having a rotating handle at its upper end, and a sharp steel auger or a circular saw at the lower, had a turn of the cord passed lightly round it. The operator holding the rotating handle placed the auger or saw on the bone to be perfornted and by a rapid to and fro movement of the drillhow caused a quick revolution of the auger and speedy perforation of the bone. When a circular piece of bone was to be removed a short steel tube with teeth on its lower edge was used in place of the auger; this was termed yoursele. The drill-bow is similar to the tool used by carpenters in

ancient and modern times. Examples of the special form used by Greek and

[&]quot; Hipp. weed wod rpan. [Van der Linden), exriit " Lalien, viii 3. " Galen (Kalin), 2. 448.

Roman surgeons are rare. The British Museum possesses one, though its nature and purpose were never ascertained until the discovery of the specimen here described.

The example from the British Museum is shewn in 23B (Fig. 2). The binged piece c has been broken off near the joint, hence it was difficult to identify until a complete specimen could be used for comparison. We are indebted to Mr. A. H. Smith for permission to photograph the Museum specimen; he first noted its identity with our No. 23.

VIII. Scoop or Curette.—Specimen No. 24 is of much interest. It is a double scoop or *vallio**coc measuring 19.5 cm, in length. The one scoop is toothed at its extremity, the other is smooth. On cross section the hollow of each scoop is seen to be formed not by a curve but by five planes meeting one another at equal obtuse angles. The two scoops, each 9.75 cm in length, are joined together by a cross piece 1.5 cm, in length at right angles. This arrangement permits a strong hand-grip on the instrument. Gynaecologists whom I have consulted tell me this double scoop may be intended for, and could be used as a uterine curette.

Hippocrates 4 speaks of such an instrument ($\xi i\sigma \tau \rho a$) being used for disease of the os uteri.

- IX Probes.—Nos. 25 and 26 are good examples of the probe μήλη or speciflum. No. 25 is exactly like a probe of to-day; it has the two olivary thickenings at the ends and is what Galen would have called δεπόρηκος μήλη*: length 15.7 cm. No. 26 has no olivary enlargement at either end, but presents a small round that disc about 6 mm, in diameter at one extremity length 17.2 cm.
- X Cautery.—No. 27 is probably a bronze cautery or καυτήριου. Its length is 16.8 cm. and the broadth across the part to be heated is 3 cm. Similar specimens of cautery are shown by Gwilt, I Pl. II. Nos. 37, 38. There is just a possibility that it is a γλωσσοκάτοχου or tongue depressor, but I think that it is improbable.
- XI. Needle Holder (!).—A bronze rod 13-75 cm. in length decorated by three bands of turnod ornament (No. 28). At each end an aperture about 1-5 cm deep. This looks like a needle holder. The rod is curved at one end, either with a purpose or accidentally;
- XII.—Spatulæ.—No. 29 is a good example of the anadomina or spatula having an olivary probe at its other and. Its length is 168 cm., and the breadth of the spatula end is nearly I cm. The spatula is slightly concave or spoon-shaped. No. 30 is a large double spatula with a central decorated handle. Length is 195 cm., the breadth of the spatular being 15 cm. The spatular are slightly concave, one more so than the other.

[&]quot; Hope week your good (Van der Linden), anavi-

[&]quot; dishen (Kirlin), H. \$51.

XIII. Slab of Egyptian porphyry, 12 cm by 7.5 cm,—This slab doubtless was for mixing the solids of the Materia Medica. The slab was bevelled on one side and polished on the other. It is marked No. 31 on Plate XI.

XIV. Balance.—A well constructed pair of scales, still in excellent equipose (Plate XII. No. 32). The beam is 30 cm. in length. It was supported by a cautral book. The pans are cup-shaped, about 14 cm. in depth and 67 cm. in breadth. Each is suspended from the beam at four points instead of the three in use in niedern time-

NV. Cupping Vessels.—Three well preserved oracles or countrictules of different sizes were found. They are of the usual shape. The method of application was to ignite a piece of dry linen in the fundus of the cup. The cup was then applied to the skin. As the heated air within cooled it contracted and sucked the skin into the neck of the cap. Cup No. 33 is about 11-5 cm. in height, 9-2 cm. in breadth. No 34 is 10-7 cm. by 6-7 cm., No. 35 is 9 cm. by 6-3 cm. For convenience of hanging a ring was usually soldered to the cone-shaped spex of each cup. Faint traces of this arrangement may possibly here be seen, but such vessels did not always have rings, and perhaps these never had thom.

XVI. Beaker.—A decorated purple glass beaker, No. 30, 25:5 cm bigh and 10:5 cm broad at the brim, was found with the instruments in tragments and has now been restored. Its function was probably not medical. It may have been the drinking-cup of the physician, or the vessel used for pouring librations at his temb.

I desire to acknowledge the great help obtained in preparing this paper from the late Dr. J. S. Milne's Surgical Instruments of Greek and Romain Times (1907). Further information and a bibliography will be found in E. Gwilt. Geschichte der Chirneyee, i. 1808, 505-6.

RICHARD UATON.

A CYPRICTE INSCRIPTION FROM KERYNEIA.

THE town of Keryneia is situate on the northern coast of the Island of Cyprus, between the ancient city of Lapethos and the town of Macaria. It was founded by Kepheus, the lender of an Achaean colony in Cyprus, simultaneously with Lapethos, which was founded by Praxandros of Therapuae in Laconia.1 Keryneia figured as one of the nine kingdoms of Cyprus during her paval supremacy about the tenth-minth century a.c. The list king or tyrangus of Keryneia was Themison, who was taken prisoner and deposed by Piolemanus Soter I, in 312 no., together with the last king of Lapethos, Praxippus, on the grannel that they made alliance with Antigonus against him. By the seashore at the western end of the town there is an extensive accropola of rock-mit tombs, some containing more than one chamber, which were rifled in ancient times; these the inhabitants of the small modern town, following amount tradition, call the Tombs of the Greeks, Tabour ros Exagram: The ancient town obviously extended southwards, on the plateau overlooking the coast, and included the present quarter of 'Pharikor or 'Phyarikor (Royal Residence), a word handed down from the Frankish period. Keryama played a prominent part in mediaeval history from the deposition of Isaac Commonus, the last Byzantine King of Cypris, by Richard the Lion-Hearted in 1101, antil 1570.2

Cesnola published in Salaminia, pp. 84-5, two inscriptions in the Cypriote syllationy found at Keryneia mentioning the name of Paphia (Aphrodiie). These inscriptions were reproduced in the Sammling der priechischen Dialekt-Inschriften (1883), Nos. 15-16, where the name of the dedicator appearing in No. 15 is restored from Kestothemis to Akestothemis. In the year 1910 a site in the quarter of Reatiscan mentioned above about 500 yards south of the coast, had been dug with a view to being entireted. The digging unexpectedly brought to light extensive ruins of ancient buildings with concrete floor of Roman period, which having been broken and removed, another stratum of ruins, more uncient, appeared beneath. The

Lymphy, 198 Abrah HL alv 481

woon, pp. 14, 26.

lines of foundations of both periods had, unfortunately, been totally destroyed before any ground plan was prepared. I inspected the site in December, 1919, and saw a huge heap of mostly cut stones removed from these foundations. Further, I noticed on the spot the following antiquities unearthed from the same site: a large red-ware jar (found tixed in the ground by means of concrete and full of takes); a piece of coarse mosaic; several fragments of clay figurines of archaic and Hellenistic styles; fragments of glass vases and of thick window-punes; terracotta lamps of Graeco-Roman period; various marble capitals of the Corinthian order and other olegantly worked architectural objects, one of which retains traces of red colour, one fragment of a white marble tablet bearing a cross in relief, of fine Byzantine work; and a plastered stone slab 44 by 21 cm., bearing an effaced Greek inscription painted in red. A large number of copper coins has also been discovered with which I will deal later. By the extant tradition, supported by the finding of the architectural marble object bearing a cross, it would seem that on this site stood an early Byzantine church, which must have been pillaged and demolished during the Arab invasions from 644 to 964 A.D.

In 1911 the horticultural operations were extended to another site adjacent to the one described above, and separated from it by a street. The two sites, however, obviously formed one large square block of public buildings. This digging, too, has unearthed extensive and very interesting remains of buildings, such as a temple, a bath, etc., and three pits or wells at the western end, close by the temple site. Also a large area was found with thick concrete floor, under which foundations of older buildings were discovered. Within the enclosure of the temple there were found several terracotta and stone statuettes, of the sixth to third century a.c. A pedestal of hewn sandstone was also found in situ, bearing on the upper surface a shallow basin in which the lower portion of a stone statuette was found actually erected, and on the front an inscription in Cypriote writing, a full reading of which is given below. Among the statuettes there are some wreathed with laurel, representing priests and priestesses of the deity or delties worshipped in the temple. The floor of the bath consisted of stone slabs and baked bricks and a heap of ashes and charcoal was still in place. Between the temple and this building, but nearer to the latter, over a hundred copper coins were found in one place. Most of these are budly corroded. Among them however, and these found on site L. I was able to identify one of Vespasian bearing the inscription KOINON KYTIPIWN, and some of Antonians Pius and M. Anrelius, as well as others of the Byzantine period. On site I were found also some small bronze objects of Roman date, including an implement which in ancient times was doubtless used, as it is nowadays used in certain parts of the island, for dressing bemp.

The inscribed pedestal is 35 cm. long and 33 cm. broad, and the basin measures 28 by 27 cm. The height of the characters varies from 10 cm, to 7 cm. The inscription consists of eleven letters in three lines and reads from right to left.



We saw above that in both the inscriptions published by Cesnola and Deecke the name of Paphia (Aphrodite) is mentioned, and probably these inscriptions came from the same site where the inscription under review was found. This may be assigned to the fifth to fourth century p.c. from the form of the characters and the style of the portion of the statuette found on the pedestal. The right foot of the statue is broken, the left entire and elegantly sandallied.

We may therefore conclude that on these sites once stood the royal palace, the temple and shrines of Aphrodite, and other public buildings. It is greatly to be regretted that all the lines of foundations of the various buildings have been destroyed.

On the south of sites I and II, and not very far from them, there must have existed the agora of the town. This is established by the fact that a square pedestal of grey dark atone, bearing four holes on the upper surface for bronze statuettes and a Greek inscription on the narrow front, was discovered in 1898 in the excavation of the foundation of a house. The inscribed pedestal in question is now built into the wall of a dilapidated raulted chamber in the courtyard of the Keryneia Fort. The inscription refers to a dedication made in bonour of Tiberius Claudius Aeneias of the Quirina tribe by the Keryneiae bijuoy, and was set up in the agora in the first or second century after Christ.

J. C. PERISTIANES.

This inscription was report at the Castle of Keryneia by Bishop Worslowarth, and was pubforhed by him to the theorem in

^{1800.} It is reproduced in my General History of the Library Cyprus, pp. 21-5.

THE HOLKHAM HEAD AND THE PARTHENON PEDIMENT.

BEFORE accepting Sir Charles Waldstein's amazing theory that the colossal female head at Holkham Hall belongs to the East Pediment of the Parthenon, we have the right to demand from him some evidence on the following points:—

- (I) That there is reason to connect the head with Athens and the Aeropolis.
 - (2) That the material is identical with the other pediment marbles.
 - (3) That the style is Pheidian, or at any rate fifth-century Attic, and
- (4) That it is an architectural and not an independent piece of sculpture.

His article in the last number of the Hellenie Journal cannot be said to deal with any of them satisfactorily

The first point, though very necessary for his thesis, is hardly considered by him at all. Matthew Brettingham, who bought the marbles for Holkham Hall, purchased them, it appears, in Italy between 1755 and 1760. It was a period in which Italy was being ransacked for statuary by English collectors, but the antiquity-dealers were not yet visiting Greece, and it is difficult to see how a Parthenon pediment head, displaced conturies before, when the Partheuon became a Christian church, could have found its way into the Italian market. The long arm of coincidence may always be a possible explanation, but until other Parthenon marbles have turned up on Italian soil, we shall be justified in exacting an extremely forcible argument in all other directions to make up for the difficulties of proteonome.

The question of the material is of first-rate importance for the attribation. If the head is not Pentelic marble, it cannot belong to the Parthenon pediment. On this point Sir Charles Waldstein quotes the opinion of a geologist 'that the head is decidedly of Pentelic marble.' Unfortunately the opinions of geologists on the question of marbles tend

The Laborde head was bought in Venice, but it had belonged to Moreant's serving, and thus had class claims to Attic origin.

to vary very greatly. Pentelie murble itself is of many grades of quality, and there are Italian murbles of each close similarity that it is very hard to decide between them, as the catalogues of Italian museums frequently show. But in this case the test was a much simpler one. The comparison lay not with Pentelic murble as a whole but with the murble of the Parthenon pediments. It would not be difficult for a geologist or even an archaeologist to decide whether the murble of the Holkham head was identical with that of the pediments. We have no indication in Sir Charles Waldstein's article that this test was made.

But the question of style is of course the one on which the suggestion will most naturally be judged, and here it must frankly be admitted that the first amotion excited by the article is one of amazement. No cloubt the sculptor of the pediment was not a first-class artist, but he did not at any rate commit the faults of the Holkham head. We can judge from the Thomas' that he blocked out his heads fairly roughly to catch the prominent lights and shades, but did not waste much line chiselling on an architectural piece. His faces would be strong and vigorous but not perhaps delicate or expressive. They would surely not show the smooth, highlytimished, meticulous mediocrity of the Holkham head. No doubt, as Sir Charles Waldstein says, the surface may have been worked over and smoothed, but there are certain traits of Pheidian or aith-century technique which are bound to appear even in a much mutilated fragment. One of these is the hour-treatment. The Parthenon sculptures and all the works perfamily conneeted with the school of Pheidas show the use of thick curls of hair with a very pronounced wave, not the thin lightly waving hair strands that we find for instance in the Eirene of Cephisodotus. Praxiteles also used a large tree. and it is not until a much later period that the thin tress of many divisions twisting and earling over one another came into vogue. It belongs to an age of naturalism and not to one of idealism. If there is another point certain in the Phostian technique, it is the character of the lower cyclid, which sinks deeply in the middle and rolls over a little to form a lip. This form of cyclid never appears again in Greek scalpture, because Praxiteles and Scopas entirely altered the treatment and their successors never reverted to it. The Holkham head shows the normal unemphatic lower lid of the post-Praxitelean period. The short but strongly bowed and somewhat protruding Pheidlan lips have no resemblance to the machanical flat bow of the Holkham head, though they are not unlike the restored lips of the Laborde head; and finally one may well wonder what re-emblance can be found between the heavy monotonears fleshy forehead, checks, and neck of the Holkham head and the marvellous marble technique of the author of the pediment.

Of course Sir Charles Waldstein is quite right in saying that there are elements in the head of greater antiquity than the Scopaic and Praxitelean types he illustrates. That is simply because the head is a conscious archaistic work of the Graces-Roman school. The real comparison for the Holkham head lies with works like the Hera Ludovisi and the restored head of the Ginnone che discende dall' Olimpo of the Villa Albani or

better still perhaps with the colossal head in Turin shown in Fig. 1. There heads are better than the Holkham head, but they all together show certain quite clear characteristics of the period —(1) A duil treatment of large surfaces of flesh like cheeks and forchead awing to the want of freshness and originality in their art. (2) A very mechanical ending to the lip-corners in a circular hollow drilled out instead of finely finished by hand as in Pheidian and Pravitelean heads. (3) An effort to render by meticulous chisching the fine impressionist irregularity of classical hair. (4) An archaistic treatment of



Unioscal MEAN IN TERES.



FOR L. THE HOLKSIAN HEAR (From a Case)

the cyclorow and eye to produce the effect of more classical simplicity. The Turin head is not so archaistic as the other heads in the two latter points, for it is earlier in date and is intended to reproduce a more violent emotion, but the Villa Albani, the Ludovisi, and the Turin heads between them account for all the details of the Holkham head.

It is difficult to see any ground for labelling the head Aphrodius. Surely Sir Charles Waldstein does not really believe that the wearing of carrings was peculiar to this goldess. On the same page on which he makes this suggestion he prints a photograph of Eirene showing the earning

hole in the right car. There is on the other hand, as we shall see immediately, a fairly clear indication that the head belongs to one of the edder goodesses.

Finally we come to the question whether the Holkham head is pedimental sculpture at all. The various points which Sir Charles Waldstein,
puts forward as evidence for perspective might be more reasonably addresed
partly as signs of poor workmanship and partly as showing that the head was
turned a little to one side. In all heads so turned there is liable to be some
asymmetry. When the modern restorations are removed it will be seen that
the original back of the head forms a regular flat surface extending obliquely
downwards from the top of the head to the middle of the neck excluding the
back of the left and the whole of the right shoulder. Now the good condition of the heads do not split in regular layers with smooth surfaces. The
explanation therefore of the restorations is that the Holkham head was nover
complete, but was originally underes a mask of the same kind as the Turia
head;

Such masks were common enough in Alexandria, where marble was care; and where in consequence the lace of a strictue was frequently modelled. in marble but the hair aided in stucce. The Zeus of Otricoh with its many conlicas is a case in point. But this technique is of course an invention of Hellenistic art. Besides the hombs fluished in stucce, of which our museums contain plenty, the same technique was used for acroliths, ac. statues imitating the dearer chrysdephantine technique with fine marble nude parts and wooden or inferior murble drapery. This accolithus technique is used, for instance, at Lycosura by Damophon, and is known throughout the whole history of Greek sculpture. In Granco-Roman colossi it is quite usual especially for famale figures where the face was made as a mask and the veil added in a cheaper material. This was the character of the Turis head, and the Ludovasi Hera and its colossul neighbour in the Turin Museum were also made separately for insertion. The round cutting of the lower part of the Holkham head, the missing piece on the neck where the year would lit in, and the slicing away of the back are clear enough evidence that the head was made for inserting in a statue either of wood or perhaps of an inferior marble, and it must therefore of course, abandon all claims to a peslimental position.

It was probably a Hera or Demeter head and certainly belongs to the Imperial age. It has none of the grandeur and dignity of the best Augustan work, and I am inclined therefore to put it considerably liner. Its companion, writes Matthew Brettingham, 'Lucius Verns, was found in cleaning the Port of Nettuna.' The two may well have been found together, and may belong to the same Antonine period, for the work has all the look of an Antonine production, though it may be us old as the later members of the school of Pasiteles.



Fig 1 .- Thorax thoug Care abox Mycknas.

THE POTTERY CALLED MINYAN WARE.

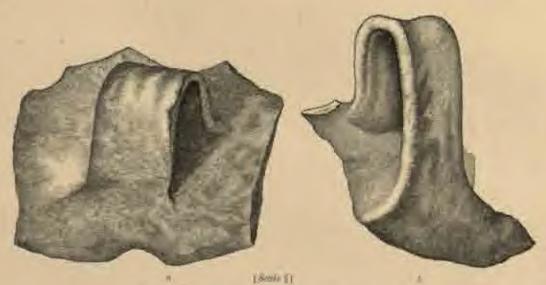
Insurery al Orehoments

THE name Minyan has recently been given to a kind of pottery which was first noticed at Orchomomos by Schliemann in 1881. In the report of his excavation which Schillemann contributed to the second volume of the Hellevier Journal, he carefully described the nature and position of this ware. It is very comarkable that at Orchomones painted policy, with spirals and other Myesnean ornamentation, also cows with two long horns and the same variogated colours as at Myceniae, as well as goldets of the very same form and colour as at Mycenae, are generally only found down to a depth of about six feet below the surface of the ground and that at a greater depth, monochrome black, red, or jollow, hand-made or whoelmade pattery is found almost exclusively, analogous to some of that collected by me in the royal sepulchies at Myconne. Very trequent here are the large hand-made black goblets or bowls, with a hollow foot and horizontal thirtings in the middle, which I also found at Mycenne: . There also frequently occur fragments of vases which are characterised by their small handles (Fig. 2, a), and others by their long and slender liandles (Fig. 2, b), like the pottery of the Sixth City at Troy. All this pottery is either handmade or wheel-made; and is sometimes black, in which case it has the natural colour of the clay; sometimes red or yellow, in which case it is penerally slightly earnished. The black pottery in the natural colour of the olon, which I propose to examine minutely in the following pages.

^{*} J.H.S. ii. (1881), p. 152 = Schillemann, Berryl aber mans: Anograticopes in MadiciOccion in [Lospeig, 1881].

evidently belongs to the class which has long been known to archaeologists as bucchero nero and is now usually called bucchero.

Schliemann's observations have been confirmed by the Bavarian expeditions under Furrwängler and Bulle, who resumed the excavation of Orchamenos in 1903 and 1905. No descriptive publication of the pottery found by them has yet appeared, but in the first volume of his Report Bulle gives an adequate account of its distribution. In the first season a mass of memorlarous shords, to which the general name. Minyan was



PIGE E -SCHEIFRENS'S PROOFFEE PROOF ORGANISM ON

temporarily applied, was found in association with Mycenean pottery; at a lower level the Mycenean pottery no longer appeared, but only Minyan

The word less little meaning to under Italian It is not used popularly, and dietionarise Yary from 'tub' to 'shina jar.' Thu Facul-turio della Orano [ad. 1795] says . 'comrates di bide estaryas, per la più reces i besche as - towns anny de blanks a de week the si f borious well fully a fa Fortagello. Mr. H. L. Habam lath me that the aromain portery th quantities was first imported but Portugal from Central and Smith America in the Sixtomilli Canthry and we extensively imitated there during its extraordinary vague to Enveye. The name was derived from Portugues; nor Simulali telegra. 'In finity the term has been taken in a very different acceptation. We find the woods " Vaci di Bambero auro" employed de their oritions by the Ralian antiquation in represent the black pottery discovered in the medent

Elization funds. If we recollect that the carillest emissivations used on the sits of the Estation necropole took properties at the very time when the tests for American ware was assuming itself to the country, we may assume that the signification of the newly-introduced name was extended to black and nugleous, patter in general, without distinction of age or origin. In this way stone can we account for the adaption of such a strongs informate, —M. L. Solom to Follow Worskip: The Palley Idole, I.—The Noble Barrerre, p. 36 [Paper read as the Mireling of the North Staffordship Literary and Philosophical Society, thet, 23rd, 1896].

* Orekanders & pp. 4, 15, 65 (= 486, d.). Super_Akud. of Wise (12, axis, bal ii. Abs. [1907]]. ware with some isolated traces of Mattendere: This stratification was tested in the second season, and it was thoroughly established that beneath the Mycanean remains at Orehomenos there lies a deposit of considerable bulk which is characterised by monochrome gray and vellow pottery.

Mame

The working name 'Minyan' the invention of which is credited to Soldiemann, has now been abandoned by the Bayarian excavators, for the good reason that it prejudges an important historical question by linking together the special attributes of the Bosotian Orchomenes in archaeology and literature. But I cannot discover when Schliemann gave this name to the pottery, and in the long interval between the German excavations no use has been made of it, although numerons finds of the pottery have been reported. Schliemann indeed recognised his Orchomenian buochero as the same that he had found in the Sixth City at Troy. He had already claimed the Trojan pottery as "Lydian," and this name, even worse than "Minyan" as having more definite significance, has occasionally and even recently been used for the Greek fabric. It is too late, however, to repudiate 'Minyan,' which has now been widely adopted, nor is it useful to substitute an alternative until the origin of this pottery has been as well established as that of Minoan or Cycladic ware. But a descriptive name, where possible, is better than a local name, local always better than racial, for in the labyrinth of Aegean archaeology progress can only come by accurate observation and intelligible record, and historical theory makes a misleading cluo.

Distribution

In the thirty years since Schliemann's fragments came to light, the same potters has been found in many other parts of Greece, and although the great quantity of new material from Orchomenos has not yet been illustrated, it is safe to suppose that it will not add very much to the knowledge which has been gained from other sources. Wace and Thompson have indeed already stated that the Orchomenian fabric, so far as they have seen it does not differ from their own finds at Lianokladi, which produced more Minyan ware than any other site explored by them. They found a good deal at Zerélia, but little in central Thessaly and none at Rakhmani, their most northern site. In the more extensive excavations of Tsauntas at Dimini and Sésklo a considerable amount was found chiefly in tombs, which the accompanying weapons show to belong to the Bronze Age. The distribution proves that Minyan ware reached Thessaly from the seath.

In southern Greece the distribution is more even. Shords have been found in Attion notably at Elemis* in association with the pre-Mycenean pottery called Mattimalered at Thorikos, and in tombs on the south slope of the Acropolis at Athens. Only one doubtful example is preserved

^{*} How, p. \$87. Schlimmum really meant the furnishments, but that and properly distinguish it.

[&]quot;Apx, "Ap 1912, p. 21 (Frg. 12; the range) stem of a goldet from Elemen.

[&]quot; Problemor Thomas, pp. 194, 186, 159.

Twombies Aurest and Merces, p. 182. Ep. "Apx. 1898, p. 51; 1012, p. 21.

^{*} Problement Threadly, p. 222.

from the Aeropolis itself,16 but it is likely that here as in many early. excavations of prelimatoric sites the Minyan ware was thrown away with other undecorated pattery.11 The fabric has been identified in Megaria.12 Several pieces were found by Schliemann in or over the shaft-genves on the Aeropolis at Mycenne, and much has since been excavated in the town 10 Tiryns is also yielding quantities,14 The first contact with the invading Crotan culture is probably represented again in a curious was from the dromes of a bee-hive tomb at Pylos (Kakovates), and at Kampos in Laconia to Minyan burnals have apparently been found so far west as Leukus,10 But the centre of fabrication in the Peloponness, corresponding to the great Bocotian settlement at Orchomenos, was revealed by Vollgraff's excavation of the Aspis hill at Argos, where Minyan ware and Matthurberes were found exclusively. If Another withement appears to have existed on the site of the Temple of Aphredite in Argina.18 The most recent addition to the sites is Phylakopi in Melos, where the second excavation of 1911 produced important examples of the fabric, which had almost escaped notice in the earlier work of 1895.19 Similar sheets are said to have been seen in Parole 10

By combining these scattered records it is possible to give a fairly possibles complete account of the pottery resulf. In this connexion the description given by the latest discoverers, who handled large quantities of sherds with full knowledge of their identity, is worth repeating. Technically it is one of the best of prehistoric wares; artistically its merits are very humble. In is usually of a stary grey colour, which sometimes varies to a yellowish brown on one side, and on the other to a much blacker has. The colour is usually the same right through, and although there is sometimes a brownish discoloration at the centre of the break the surmor is never marked off by a clear distinction of colour. It is wheel-made, although only slight marks of this appear on the outer surface, which is smooth and rather stapy to the touch. The clay is well baked to a fair hardness. One ment it has, and for the excavator a very great one; its appearance is unmistakable. It is also atterly different from anything of which the clay of Melos was capable: it could never pass at Phylakopi for anything but an imported fabric. 21 The

[&]quot; Alveged's Farm, top 1.

if it is for mutanes liberedlide that none was found in the American excavation of the Argive flyraeum, where the pointed Man-Minyan about were well represented among the barns number belonging to the "Pinni tive" class which "had no descrition of any hind and were therefore thrown on the rabbish hape'-ofeger Hereeum, H. p. 60.

re _111 Matt. 1904, p. 95 (Nimes and Minos). to Myseuse, pp. 154, 214, etc.; Myseusuka Frem, p. 53 : Pre. Themely, p. 224.

to del Mill. 1913, p. 69; Fre. Thissely. H.S.-YOL XXXIV.

² AtA, Mat. 1909, Pl. XXIV. 2. Imperied probably from the Argelia.

¹⁵ Mr. E. N. Confiner tells me that he has resulty even places from this are in the National Massum at Athena,

⁴ Arch. Ast. 1969, p. 122 ; op. Prz. Themaly, 14, 229.

¹⁷ B.C.H. 1900, p. 5.

or Por. Thomaly, p. 222.

¹⁰ R.S. A. 2ville p. 15, Phylakopi, p. 154.

⁼ Pre. Thrully, p. 228.

[&]quot; Diwkins and Droop in B.S. A. zvil. p. 17.

description makes it clear that Minyan pottery, in spite of its modest appearance, is a well-marked ware of highly specialised technique. The shapes are the same at Phylakopi as elsewhere, and certain pieces were distinguished as imitations in the local burnished fabric, red or black. This observation agrees with the evidence from every other site in Greece; vanamitations beside the amouth grey bucklero proper there occur varieties of inferior technique, ranging from fabrics which are black all through to brown and red wares with black polished or painted surface, or even without the colour, but showing Minyan influence in shape alone. At Troy, on the other hand, such variants do not occur. Thus at Orchomonos the pottery is 'monochrome grey or yellow ware. The Minyan ware from the Aspis at Argos is divided into three fabrics = by Vollgruff in his careful publication :-



(Rodoved from our benefit and serious Scale 4). Fig. 8 - Cry Prox Angel: Unity December.

I. Light red or brown wars.

II. Black buckero; red or grey day with surface coloured, sometimes on exterior only.

HIL. Grey burchero, coloured all through.

All these wares are highly pollshed, and show the same forms, but with some preference. They clearly form a single group, differing only in technique, and in this respect I and II are more or less distant imitations of III, which is the only true bucchers of the group and the only kind of Minyan ware which is common to the rest of Greece, the Cyclades, and Troy, Vollgraff says of the grey fabric: * Pour elle, plus que pour toute autre, la

w Fortwoongles and Loss boke made products the same classification of the scanty material from Mycenes (Mph. Passa, p. 24)

question du ou des centres de fabrication se pose d'abord, ou que, pour la façonner, il semble qu'on se soit servi d'une espèce particulière de terre ou de roche pulvérisée, susceptible de prendre à la cuisson les beaux tons gris, ainsi que la remarquable consistence que la caractérisent. La même question no se pose pas aces autant d'argence pour les autres peures de polerie préhistorque de l'Aspis, qui nécessitent, non l'emploi d'une matière spéciale, mais seulement l'application de quidques providés techniques déterminés, dont la commaissance pouvait se répandre de proche en proche. These other fabrics were contemporary, for there is na sign of progressive development in the material from the Aspis, and pieces of each kind were found in constant proportion at every depth.

In the grey burchero proper the commonest shape at Argos is a small record cup strongly resombling the classical Greek conthures. An example has



[Received, height uncertain; Scale 4]
Fig. 4.— ** *zow Annos; Henry Buccheno.

been restored from the best of several fragments recently presented by the Hellenic Government to the British Museum (Fig. 3). The high ribbon handles are the characteristic Minyan feature. It will be noticed that this is the shape to which Schliemann's fragment b belongs (Fig. 2). The form of handle, as well as the sharp division of opposite curves in the profile of the body, must be derived from a metal original, and the same technical influence probably explains the survival or revival of the type in Greek and Etrussian pottery. A gold model was actually found in the treasure of the

Fourth Grave at Mycenae (Fig. 1, a). It is however by no means certain that all the Argive cups possessed two handles. The only complete specimens from the Sixth City at Troy ware one-handled, and the Argive material is fragmentary. But there is no essential difference; the variation between one and two handles runs all through the Trojan series, and the gold expenses that the two-handled form existed at this period.

Similar handles appear upon a different type of body, which lacks the hollow metallic top and is entirely convex. Another fine grey fragment in the British Museum, also from Argos, gives this shape by restoration (Fig. 4). The height of this cup and the exact form of its base are not known. Vollgraff illustrates an example in the red fabric. It is the common Trojan of form which Schliemann refers to (above p. 120). The same type with shallow body is represented by three polished yellow cups from the



Fourth Shaft-Grave at Mycenne, and a very fine specimen in the British Museum, with sharp lip and shoulder, comes from Dimini in Thessaly (Fig. 5). The last has black polished surface with red clay underneath, and is therefore an imitation of buckleyo.

A larger bowl is mostly confined to the black fabric, the so-called Argive Minyan, which is made of red or grey clay with superficial

Mycenes, No. 839.

⁴⁵ Schliemann Summel, 4170, 3177; of. Harp, 533 (where six evaluples are illustrated); Wright p. 176m; s. PL 59, v.

⁼ R.C.H. 1906, p. 9. Fig. 2.

[&]quot; Schlie man Sommit. 750 l = Host, No. 11021

^{1210,} etc.; and for the shallow form S.S. 3685 (= freen m. 1960, h. Fig. 200).

[&]quot; Mysesser No. 249; Mysk Thomps, Pt. V.

F No. Thussly, p. 233

colouring and polish. My example (Fig. 6) is reproduced from Vollgraff's paper, where imports of other types are illustrated. The chief variations are in the number of flutings below the lip and the disposal of the impressed lines on the body. The small handles are of the same metallic type as before, but adapted to the weight and function or the larger mensil. Schmidt has already traced the development of this handled bowl at Troy. I am not sure if the inused decoration exists on Trojan bowls. It may be one of the faw poculiarities of the Greek or even of the Argive fabric. But it is worth noting that the system of lightly ungraved parallel lines resembles the Rillenband which is a common form of Trojan ornament in the Sixth City.

Perhaps the most remarkable Minyan vase is the heavy gobler formed by adding a cylindrical ribbed stem to the last type of bowl. The flat loop



(Robert | Sink as kanys)

Vol. (I.—Prodern Brown from Arone Black Schrace.

handles which appear so frequently among the sherds might belong to either wase. Schliemann's first fragment from Orchomenos is one of these (Fig. 2.a). Fragments of the hollow stems are also very common in Greece, and several are shown with the Trojan pottery in Berlin. Wase and Thompson, who kindly permit me to reproduce an example which they found at Liepokladi (Fig. 7), distinguish a local variation in the Bosotian and Argive stems, the

[⇒] B.C.H. 1906, p. 13, Fig. 9; «f. Figs., 10–15.

^{*} Train s. / Aline pp. 246, 260, 290,

I noted its occurrence on Nos. 2201-2305 in Perlin, but the Catalogue does not deptinguish these pieces, and I have not been able to verify the reference.

M McLimmon Samoni, 2145-4, 2488, 2497-

^{5501,} ste.

²² Pro. Phrently, Fig. 135. The handles of this golder are abnormal, but Ware assures not that there was good or ideas for their resignation. For the usual flat loop see (Notes, Fig. 103; R.S.A. rvil. P), VII (Phylakupi); hander, Fig. 40 (Seeklo).

latter being curved. But this shape, which is represented in Schliemann's fragments from Mycenae (Fig. 8), and in complete specimens at Phylakopi, seems properly to belong to an entirely different vase of much earlier origin; which modified the rigid lines of the later goblet. Its metal prototype may



Fig. 7.—Gomes from Lainonland Gray Browners

be seen in another plain gold cup from the Fourth Grave at Mycenae (Fig. 1, b), which Schliemann rightly compared with certain Trojan pottery

^{*} Myocone, No. 280. = B.S.A. vell FI VII. 4, 201.

[&]quot; Myernar, No. 243, p. 234.

of the First City. The Trojan caps are exactly similar (Fig. 9): It as there is no reason to doubt their early date—Schliemann found them 'in a depth of fifty feet,' at Hissaclik— they farnish a useful illustration of the persistence of a simple type. The unique vase found at Pylos (above, p. 129) belongs to this group, and is a monochrome fabric, though not bucchero. It is evident that Minyan were brings a new element into Mycenean pottery. In particular the characteristic Mycenean 'champagne-glass' must have been therived from Minyan models after the Mineau contact with the mainland. Five out of the fifteen examples in the British Museum from Jalysos are undecurated and show the heavier short-stemmed form, and another early type is angular, like the second Minyan goblet. These are the only wasse of elaborate shape which appear in Mycenean pottery in monochrome technique.







FIG. 6 .- COP FROM THOY (FIRMS CITY).

The same curved foot with little or no stem was adapted to the Minyan bowls. Fragments of such feet were found at Argos, and Furtwaengler and Loescheke gave an illustration, which seems to have been restored from the insufficient fragments which they had ** I would suggest as complete examples of the type two monochrome vases from the Sixth Grave at Mycenac (Fig. 10).** These are of pale yellow clay like other local fabrics, but the shapes are certainly Minyan and are paralleled at Troy. A silver vase of closely related form was found at Gournia with fine Kamáres ware.

[&]quot; Har, No. 31, p. 424; Troja vs. Him, Fig. 117; Schlieman Samuel. 161.

¹⁴ Mak. Pasm, Pl. II. 17 : cp. R.S.d. xer.

Pl. II. 5, 4 (Sparia), sec. My wane, No. 83,

[&]quot; Myk. Foren, p. 54, Fig. 30.

[&]quot; Mal: Thimpst 17, X, 48, 49.

and seems from its delicacy to be Missoan work." But we know nothing about the origin and circulation of metal models, which may well have been a medium of interimational influence in examic art.

It will be seen that the recorded shapes of Minyan vases are few, and heavily marked as members of one family. They resolve into three main types which interact considerably—the deep high-handled cup, the shallow low-handled bowl, and the curved or angular goblet; and a feature common to all is the flat metallia handle set vertically. Some other vases could still be added to the list, 12 but they are unique or rure, not obviously related to other Minyan farms and cannot yet be regarded as typical. The accident of technique alone will not establish origin. As Minyan forms were copied in local monochrome fabrics, so it is likely that the bacchero process was imitated in other shapes.

I have described the varieties of Minyan technique; a standard fabric of fine grey bucchero appearing everywhere in Greece in company with



Fig. 10.—Two Vaces show Myoznak (Grave IV): Yallow Chay.

Generalizations. It is generally accepted that the grey ware is identical with certain pottery of the Sixth City at Troy. The problem is to determine its origin in each place. As Wace and Thompson put it:

There is at Troy in settlements VI and VII a considerable quantity of Minyan ware—their conclusion being that it was derived or imported from the Bosotian centre at Orchomenes. It has been proved, however, that at neither of the two great settlements of Orchomenes and Argos, nor elsewhere in Greece, do any traces exist of the earlier stages of this highly developed

a Course Pl. C L

et Pre, Thomasy, Fig. 824 (Seeklo), Fig. 58 c Dongil) : Mat. Thomps, Pl. V. 23, X. 50

[[]Myonnee],

⁼ Pre. Thronaly, pp. 21. 231.

fabric; while it can, I think, be demonstrated without difficulty that

'Minyan' ware is the native pottery of Troy,

In the similar question of the origin of Mycenean art, which was answered by the excavations in Crete, the painted decoration was so romarkable that the presence or influence of Minoan pottery in Greece could hardly be mistaken. But in the case of pottery which is devoid of decoration, a new method of comparison must be adopted, and special attention must be given to technique and form. The technique has already been described as a variety of bucchero; the chief distinction being that, while most other bucchero is black in substance, Minyan ware is grey. The clay is normally close and hard, but the surface is rather sort, and is polished to the 'scapy' texture which has been remarked. The vases are wheel-made, but the lines of burnishing often obliterate the horizontal marks of turning. The furrows made by the burnisher are very conspicuous. Both the grey colour and the high polish are qualities which can only be produced by special process and material.

"All natural clays contain oxide of iron, which affects their colouring rechaigs of when fired. This is usually peroxide, in anhydrous or hydrated form; as many return the latter is yellow, but under the action of heat it loses its three molecules of water, thus becoming anhydrous peroxide of iron, of bright red colour, But the red can only be kept in the clay if a free sumply of oxygen prevents the reduction of the iron by the gases of combustion. In the latter case the red peroxide (ferrie oxide = Fe2 O4) is reduced to protoxide (ferrous oxide = FeO), which is black. But the clays which will naturally fire bright red or black in oxidising or reducing atmospheres are few in number, for even where irin oxide is present in sufficient quantity, other impurities in the chay are likely to modify its effect. Priuntive pottery, which is burnt in an open fire can only acquire an even colouring by happy accident. It is normally dull brown, with lighter and darker patches where the flame or smoke has caught it. These facts may be observed in the rough pottery of any age or country, but the early fabrics of the eastern Mediterranean coast, from Thrace to Egypt, afford peculiarly apt examples. In these lands the progress of ceramic art was slow, and painted deceration, so soon applied m Greece and the European islands seems to have been beyond the skill of the native potter. The nearest parallel in the ancient world is the pottery of

hay occasionally the iron is present as the percenter, he which came it is free, as no ferrio ellicate je known to exist in nature. Such slays are mainly miface clays. Oxide of Iron, whether existing as ferroms or farrir oxide, free or in combination as clay, under the action of heat and an extens of air, produces a red colour, more or less interns arounding to the Iron content of the clay and the temperature of ignition, and is also inducated by the other nomitteents of the clay.' The effect of bring in the manu in any case.

⁴⁴ I have received much practical ameanance, especially in regard to modern processe, from Mr. J. H. Wolt, Art Director, and Mr. W. Thomason, Chapact, of Boalina's Pottery at Lambeth, who have also read the proofs of the rechnical part of this paper.

[&]quot; Francisci quotes the highest percentage of 14 ; his surmal proportion is shout 8 per cust. (L) Gramique Primater, pp. 6, eS) Mr. Thomason does not await Franchit's secount, and given me the following note: 'Chays courain iron as a ferrous ailleate for the most part,

northern Italy. The experiments in painting being unsuccessful, designs were executed by modelling or engraving. Plastic ornament principally occurs at Troy, and incised work shows its highest degree of development in Cyprus. Colour effects could only be obtained by controlling the matural changes of the clay, and in the absence of painted decoration, this manipulation of the surface was perfected within its narrow limits. Starting therefore with the primitive discoloured pot, the possibilities of decomptive improvement were three the production of a clear colour, bright red or yellow; a dark tone black or gray; or a combination of these two extremes. In his valuable study of these types of pottery, Myres has very acutely remarked that the clear colours, usually red, are prevalent in dry climates, and that in rainy districts black ware is generally found. His explanation is that the difficulty of obtaining dry fael, with which alone a rapid fire can be made, caused the northern potter to despair of producing a clean pot; but that making a virtue of necessity he contrived a black surface, on which the inevitable smoke-stains were turned to good account.

Bes Ware

The processes by which the red colour could be intensified are of interest in tracing the history of Minyan ware, which represents the perfection of the opposite technique. An exidising atmosphere demands a regular draught of air, that is, the use of a kiln. Conversely, the atmosphere of a potter's kiln is intensely oxidising. This condition will produce a clear colour, but the shade of red or yellow depends upon the composition of the clay. Where red politery was in fishion, an artificial colouring was no doubt added. Thus the body of fine red clay in Attica, which had made the reputation of the local pottery, were apparently not sufficient for the industry in the middle of the fourth century a.c., for an inscription of that date from the Acropolis records the protection of red ochre (pilvros) in the island of Cees as an Athenian monopoly." The severe penalty, confiscation of ship and cargo, which is provided in case of export olsewhere than to Athens, indicates that some economic interest was involved, and this may well have been the pottery tinde. Attic vases of the period show that if ochre was used it was mixed with the paste. If the local clay was white, the pigment was applied to the surface of the vase. The red-ground Corinthian ware of the late sixth century, which represents a last effort to compete with the Attiv trade, was produced in this manner. Any ferruginous clay, earth, or rock would give the desired effect; a linematite wash (not 'glaze, for it is not firsed) has been recognised on Egyptian and Asiatic pottery; " but it is of course impossable to tell from the pot what was the natural condition of the iron oxide. Where the surface colouring is of appreciable thickness, the ochre or pulversed haematike mass have been incorporated in a clay slip.

behingies brown rather than rate. The dark mans may be thus to the much higher tem perature of modern aring; but in the race of bright red colours the possibility of lessmattre pigmens must be put to the test.

[&]quot; Journ. Addit Jest 1808, p. 870 (The Barry Pot-fabries of Asia Minor).

W LO. 12 548

Potrin, November and Roller, p. 37, Diografia Porre, p. 18; Ormerod in E.S.A. 171, p. 98. Mr. Thursson informs on that executive and

In any case the red colour is only a concentration of the iron oxide naturally contained in clay. It was developed by heat in an oxidising atmosphere, and was therefore dependent upon suitable material and efficient firing.

A black surface on the other hand could be produced anywhere, although stack wars a higher skill was precessary for the perfection of the bucchero technique, If a clean pot cannot be turned out, it is a simple expedient to make it of such a colour that the irregularity will not show; and the first method of doing this is to utilise the faults of firing, and to smoke the pot. Funnigated pottery is the natural outcome of inadequate technique, and is therefore constantly found among mimitive peoples. It is the 'smother-kill Baselers ware of Roman-British archaeology. The process consists in covering the fire which contains the pots with some close material such as turf, as in preparing chargoal. Incredible as it appears, it is generally accepted that the snioko permeates the clay until the whole substance is saturated with carbon. Franchet and other practical authorities have actually produced bucchers by this method." But is it not more likely that the grey colour beneath the surface is due, not to a deposit of carbon, but to the formation of protoxide of iron by the reducing atmosphere which such theing ensures? Smoke, which consists of particles of carbon in suspension, is much less able to penetrate than gas. But soot or similar carbonaceous matter is necessary to secure a dense black surface, and especially to produce the brilliance which is an important feature of all black wars. It is evident that a smothered fire cannot give a high temperature. So in the case of bucchero which is coloured in any other way with a carbonacoous pigment, as by mixing organic matter with the paste or impregnating the pot with resin,30 if air is admitted this will be burnt right out of the clay instead of merely charring. For this reason bucchero nero is often monthciently fired. Boehlan records that a piece of archaic Greek fabric which he excavated in Samos became disintegrated in water. 31

But these observations only apply to primitive pottery; our Minyan Grey Bassasses ware is of much finer make though it originated in 'carboniferous' buckers, It is clean and hard, and the even grey tone shows that it was not coloured by smoke or any pigment introduced through the surface. It follows that the clay was either artificially prepared by mixing with a metallic exide such as manganese, or naturally acquired this colour by the transmutation of peroxide unto protoxide of iron. The simple test of recovering the peroxide by heat- Maran Dalvar my shords in contact with the air shows that the latter process was used. The gradual disappearance of the grey colour also proves that this is not carbonaceous. The pottery was therefore fired in such a manner that the delicate grey was not affected by oxygen, which turns it yellow. Exclusion of the air might be obtained by the use of 'soggars' ('saggers') or a 'muffle' kiln, either of which implies great technical knowledge and ability. In an ordinary kiln the pattery is fired in contact with flame and smoke. Seggars are fire-clay

[&]quot; Comm. Princip p. 80, note b.

and Ormand, H. &.

⁻ Alternative processes are quoted by Myres

¹⁹ Aug. horisch in stall Necrop. p. 120.

boxes in which porcelain is stacked in such a kiln. The mufile is a closed even, and is chiefly used for fusing fine enamels. The purpose of both contrivances is only to shield the pottery from grit. The atmosphere is highly oxidising, for air is enclosed in the chamber, and the gases of combustion are excluded. A reducing atmosphere must be created by exhausting the oxygen and substituting a reducing gas. This has been done by introducing ammonia, or even sawdust before firing. When heat is applied, the oxygen is exhausted by combustion and the muffle is charged with reducing gases. But such methods are troublesome and uncertain, belonging rather to crank pottery, or to experiments in seeking colours which metallic oxides will not give in normal conditions. Their invention seems to depend upon chemical knowledge, and it is most unlikely that ancient potters can have known them. In modern commercial pottery a reducing atmosphere is so difficult to manage that it is not desired.

There is however an English process of the present day which may explain grey bucchero: the making of Staffordshire blue bricks.12 These are stacked in a kiln and fired in the usual manner until the highest point of temperature is reached. Then the furnaces are 'nuiffled,' i.e. the fire-holes are closed so as to muse imperfect combustion. The kiln is thus filled with smoke and gas by which the peroxide in the clay (red, ferrie exide) is reduced to protoxide (black farrous oxide). In spite of the heavy smoke the dark colour is produced entirely by chomical means and is not carbonaccous. The reducing atmosphere is maintained until the end of the firing, but as the fires die out the air reaches the interior of the kiln, where the mass of bricks is still hot enough to burn off the deposit of soot, but not so had as to change colour again. Highly ferruginous clay is used, which would give a bright red colour by ordinary firing. The black colour therefore depends upon proper regulation of the furnaces, and the same difficult, but quite empirical method was probably perfected by the 'Minyan' potters. It would require great skill to produce the clear grey ware, as well as suitable clay. If furnigation were prolonged, a black surface would result; if air were admitted too soon the grey would turn brown, yellow, or duil red. Such expert firing for fine pottery is an operation of extreme difficulty and impossible if its netion is not understood.

Destinations in

So indeed the prehistoric Greek potters appear to lave found, for their efforts to reproduce the Minyan fabric were unsuccessful. I have already emphasised the fact that in the Greek settlements of Orchoniczos and Arges, as well as in the scattered finds elsewhere inferior wares occur beside the

⁼ i am indefined to Mr. W. Thomason, Chambs at Isoshim's Pattery, for this modern parallel. The elatement of P. Marguerite da in Charlourie (Nov. star 52, processes, 1907, p. 236, spected in Fore's West, 1908, p. 487 that the menhod of empking to the point of activation is will practiced in England 'pour he falmous de Wegerant' (if this unsue Wedgened) in

not only false but sidemions. Wedgewood "black break" is a stanguage fired to a tomperature of about 1200° C. until the pasts to citrified, and could not contain earliemerconmatter. It la stain I with metallic oxides, such as manganese and robalt, and is not fired in reducing stime piners.

standard burekers. At Orchomenos these are 'red and vellow,' that is, with no attempt to get the colour, but frank imitations of the foreign forms in ordinary oxidised technique. No doubt there are intermediate stages in the black ware of Orchomenes. At Argos the greater quantity was of inferior make: red or yellow, as at Orchomenes, and red with blackened surface, which is obviously an imitation of bucchero, since it revenes the order of evolution. The native potter found it difficult to fire a black put hard and still to keep its colour. His remedy was to fire in his own fashion, producing the normal brown or red tones. The pots were then funnigated at a lower temperature, which is the only way, without painting, in which a superficial black colouring can be applied to a thoroughly fired and oxidised clay." It is therefore avident from technique, apart from distribution of the pattery, that the inferior wares which form so large a majority of the finds in Greece are not the immature stages but imperfect imitations of a difficult fabric. At Troy on the contrary, the pottery which is not grey throughout is grey troy with gellow surface; 31 that is to my, it has been exidised, whether by accident or design, in the last stage of firing. In the cooling there is great danger that the surplus oxygen will reach the pots while they are still hot enough to change colour; and this is precisely what has happened to the yellow Tropan ware.

The second distinctive feature of the Minyan fabric is the scopy texture mayar of the surface. This quality is inherent in the clay, and cannot be induced by artificial means. Only a plastic, 'fatty' clay will burnish. The cause of plasticity is not known, but it partly consists in fine division of the silica and alumina crystals which are the base of clay, and in their power of holding water between them. Under the wet hands of the potter, as the wheel revolves, these fine particles are washed down into the minute cavities of the clay until a perfectly even auchies results.46 Burnish is subsequently obtained by friction with a smooth instrument, in modern work a piece of worn steel is used for this purpose. An 'open' clay will neither give a solid anther nor bear polishing, but crumbles under pressure. The natural ability of Minyan clay to burnish probably helped to determine, in the period of free technique, the dark colour which can alone display the lustre. The difference between the reflecting powers of black and red surfaces need hardly be remarked; but it is well illustrated in the well-known prellymastic Egyptian vases which are bright red with a black band at the lip. The polish is certainly stronger on the black part, but it extends all over the surface; and is hardly visible on the red colour. "

= Crimina primile pt. 20.

monexula !- Nagada and Ballan, p. 57. Kocrie's statement (Ath. Mill: 1899, p. 74) that see of these rases of Bonn are touched with graphits may wall be corner, but has no value nulse-

supported by the closesteal test. I am equally muchis to find wridence that the pote montain no mebanaseuna colouring (Petrie, les. ca.).

^{11 4} hould, Soll ... Something pass, m.

^{**} Comm. probatt. ppu/9, 25, 72.

[&]quot; Petro advanced the inguition theory that the trilliance of the black mering is heightened by a met of gives formed from coagustre oxide most by sarbonyl, 's gas which generally results from impurfect combustium templism

Buckhaps and Metal

STREET,

Lustrous black pottery at once challenges comparison with metal, and to this fact are due the forms which it affects and the traditional decoration of brochero, modelled, incised, or painted. The bucchero fabries may also have influenced the shapes of metal vases, for a plastic clay naturally acquires upon the wheel just such curves and ridges as are assumed by the component parts of a metal tase in process of bending and joining. The curious interaction of bucchero and metal fabrics is probably the cause of the existence of the Minyan cup form after the interval of a thousand years in the Helbenie and Etriscan conthares It is easy to understand how Schliemann, well acquainted with the classical Etruscan ware which has given its name to the whole fabric identified it with his Trojan bucchero. and argued that as the Etruscum were of Lydian origin, the Asiatic pottery which resembled theirs was 'Lydian' too. It is indeed a curious caincidence, and the theory of an Asiatic origin for Etruscan pottery is attractive, But recent investigators have failed to find a sudden intrusion of burchere in Italy." It appears to have developed naturally from the primitive imposto; and while the immigrant Etruscaus no doubt directed the manufacture of a type of pottery to which they were traditionally accustomed, the approximation of Etrussan to Trajan forms probably came through metal technique and the importation of archaic Greek models.

Greek Bunchern

The rarity of Greek bucchers of the classical period is no doubt due to its incapacity for the decorative treatment in which other Greek pottery of the time excels. On the black ground only white or brightly coloured pigments could be used, and these were always less durable than the black emined of the Grenks, while the polished surface gave no hold to the paint. The result is that, while traces of painting are frequently seen on Greek buschero, as in the Etrussan Polledrara fabric, the colours seldom survivo at all and are then extremely fugitive. The Ionians avoided the difficulty, as the Mineaus had done by substituting a black anamel for the body colouring and harmsh. Boohlan has enumerated the many advantages which this brilliant fabric, the se-called 'Acolic' wars, possessed against the original burcheres. But the latter still persisted, and examples are known from most Asintic Greek sites. The largest quantity, as well as the largest vases, came from Nancratis, and several of these pieces bear votive inscriptions. As some of the deslications refer to natives of Mytilene, and all are written in Acolic dialect, it was suggested by the excavator that the bucchero fabric of classical times had its chief centre in Lesbos . So far as the present material goes, his conclusion is certainly correct. It does not however follow, but rather the reverse, that the improved mannel substitute was also Acolic As a matter of fact the home of the 'Acolic' fabric appears to have been in Rhodes, where Biliotti found many examples at Cameiros

re Summarised by Walters in Brit. Miss. Cotalogue of Passa, L. R. p. 1211.

⁴⁶ Apr. fon. Marroy, pp. 95 07.

⁸ E. A. Gurdiner in Novembers in (1885), pp 47, 85, followed by Issuehebs in Area for 1891, p. 18.

and the Danish excavations have recently produced a magnificent series from Vroulia. Very few pieces of classical buckers have been found in Greece, and none of certain mainland labric. The survival of so primitive a type of pottery among the progressive Ionian wares shows how deeply the bucchero tradition was established in Asia Minor; and the situation of the most flourishing Greek fabric in the south-west corner of that country is significant of its manufacture in prehistoric times.

The finest red wares of our district are those of Cyprus and Syria, reassone if a large class of pottery formerly called Cypriote really belongs to the Asia Must mainland. Egypt has produced the brilliant particoloured vases, the best examples of their kind and conclusive arguments for the essential unity of all this pottery, whether red or black. In Asia Miner the black colour predominates. The site of next importance after Hissarlik is the necropolis at Yorian in Mysia, where by far the greater number of the cases excavated by Gaudin were black but red examples formed a small parallel series.12 Similar material was obtained by Koerte from a tuniques at Box-cuyuk in Phrygia, with some black and brown particoloured cases which may have been intentionally decorative " Evidence from the south has recently been supplied by Ormerod, who collected in Pisalia many vases of the same forms as these from Mysia and Phrygia, but with an increased proportion of red wares." All the material demonstrates the last that a single type of potters was in vogue throughout western Asia Minor, as in Cyprus Syria, and Egypt, and that the black or red colour, broadly determined by climatic environment, varied to some extent with the period and locality. Most of the Asiane pottery is of simple type and very early date. The long series from Hissarlik, the only site which has been thoroughly explored idearly exhibits the evolution of fine bucchery from the primitive black ware, and illustrates the modification of this fabric by the progress and exigencies of bechnique. Poppelrouter and Hubert Schmidt have already summarised the

In the vases of the First City the usual effects of imperfect firing are moraraters visible; dark gray-hrown clay discoloured by flame and smoke. Yet oven here there is an advance to polished black and grey wares with some isolated pieces of bright red surface. The pottery of the next four Cities (II-V) was not suparated by Schliemann in the order of stratification, and the

development of Trojan pottery as it appears in their arrangement of the successive periods in the Museum fur Volkerkunde at Berlin. I have

abridged Schmidt's excellent account.

⁻ be Kinch, Families de Freelid, p. 174 : ' couper worldows " (anhoused reproductions).

[&]quot; Many grey pieces may owe their colour to into burning, especially small visco, such sa the Protocorinthian. See the account of pattery found by Wace and Thompson in Early Ison Age cramation bordeds at Halos (R.A.A. aviil. p. 21).

[&]quot; Compres Rendus do Edend. 1901, p.

[&]quot; Ath. Mill. rxiv. p. 21.

[&]quot; B.S.A. 2+1, p. 89; will p. 80, Ph. V.

[&]quot; Pappelrenter in drift, demper, taker p. 105 ; Schmidt in Traja and Illan, L pp. 243 ff., and Schlismann's Ramming frequencher Alter-Birmer (Berlin, 1992).

sequence has been restored from stylistic evidence. The earliest examples of the group show a decadence in comparison with the final products of the First City which has provoked the theory of a 'new race.' It is indeed a new beginning, and some fresh elements appear. Perhaps there was a set-back in cerumic art following the introduction of metal-working, such as has been recognised at the beginning of the Bronze Age in Crete. From this point however there is unbroken progress. The invention of the wheel is soon apparent in better shapes and surface, and of the kiln in more even colouring, which ranges from grey to more frequent yellow and red. The first traces of the clear groy colour, which grows more and more in popularity, are observed in this middle period of Cities II to V. Schmidt also notices 'n persistent effort to produce bright red.' But the properties of the local clay prevailed, and in the third period the red pottery is rivalled by grey or grey-black ware with improved burnish. This comminates in the silver-grey bucchero of the Sixth City. The red fabric, temporarily brought into favour by the invention of the kiln, is scarcely seen at all in the latest prehistoric settlements. Schoudt notes as the characteristic features of the pottery of the Sixth City that it shows on the one hand the highest point of development of the native fabric, on the other hand a strong influence of Mycenean art. The perfected mative pottery is identical with the Minyan ware of Greece. The Minean or Mycenean pottery was of course imported, and its style ranges over a very long period. Myceneau shapes were also copied in Trojan technique, but some of the 'Minyan' pieces notably the ringed-stem goblets have hitherto been included in this class. Other new alements in the pottery of City VI which should be mentioned are the plastic and incised decoration, for their remarkable character is apt to convey a false idea that these are typical features of Trojan pottery. Modelling and engraving were commonly practised in the Second City, but the succeeding periods show a growing preference for plain wares of fine form and surface. The animal heads which form the plastic ornament in the Sixth City are grotesque, but executed in fine Trojan pottery. and the graceful Wellenband, which represents the best achievement of incised decoration, was also applied to good grey burchera. Whatever may have been their origin, methor of these innovations was a serious disturbance of the native art, such as is represented in the wholly barbarous Buckelkerremik of the Seventh City. Neither the plastic por the incised ware of Tray VI has been found in Greece, and it seems that both were contemporary with the Mycenean Age, when the Minyan pottery was also confined to Asia. They must belong to the later periods of the Sixth City. The Wellenbernd is most likely an engraved imitation of Myconogn Instruit paint. These abnormal Trojan styles are therefore too buts to interest us here but it is useful to note that their technique is still the same as that of the earlier and normal fabrics. Grey clay is the rule at Troy from the very beginning: when the surface is fired yellow, brown, or even red the clay beneath is usually grey. It was probably grey in its mw state, as many clays are, firing yellow in confact with the air. In

his paper on the imaginary Attic labric 'a figures grises' Marguerite de la Charlonie quote a geological report by de Launay: Les formations de liquates reconnectes par der argiles plus on mains noires sont très fedquentes dans la mer Eger notamment dans l'Entire, à Konmi, à Lemons, à Imbieus, was Ikredanelles. It will be useful to obtain procise location of the Trojan beds and samples of their clay, which must have very special churacter.

The Minyan shapes equally belong to Troy, and reached the mature trajes forms forms in which they appear in Greece by lang descent from the earliest settlements at Hissarlik. I have referred to Schmidt's derivation of the Argive Minyan' bowl from the primitive sourcer of Troy I, by the addition or handles, base, and the decorative profile which comes through the use of the wheel and the imitation of metal models (p. 133). The high stem which makes this bowl into the 'Minyan gubler' does not appear before the Sixth City; but there is no reason to suppose that the addition was made in Greece and came from there to Troy It was more probably derived from an Asiatic source. Great numbers of the same type of gobler, even with the beginnings of ribbed moulding on the stem have just been found at Carchemiah in Hittite graves of the Early Bronze Age. The form was with spread, occurring also among Iberian vases in Spain, but it has only appeared in Greece with Minyan ware. The curved foot, like Schliemann's. pieces from Myceme, begins with the First City at Troy (Fig. 9), and is a frequent adjunct to various forms of cup in the mecessling periods.

But the characteristic mark of Trojan pottery is the high-swung handle which] distinguishes the Minyan cups (Figs. 3-5). It appears in ungainly form in the Second City, and is gradually refined from the heavy roll to the light hand-handle of the Sixth City, while the general type remains unchanged Schliemann was so impressed by this cursons teature that he halled the Trojan cup of every shape and period as Homer's Senar Applicative New, whether he met it in Asia or in Greece. Examples of the convex form of cup (Figs. 4, 5) are so numerous throughout the Trojan series that I need only refer to Schmidt's illustrations of them. 10 But I will take the hollow shape, which is common in Greece (Fig. 13), but has not yet been recognised in its fully developed form at Troy, and illustrate its pedligner through Cities II to V (Fig. 12). The distinctive feature of this vase is the sharp division in the body which follows a metallic pattern, the original being constructed in two separate parts. I have already illustrated

HR.--POL XXXIV.

[&]quot; Mrs. des 42, greeques, 1907, p. 357. The grey-flower Attle rame are simply hirrst redtimes. Bearing of dry and grow anotheren with consolestions addition of "may comes de remails of the product," are posse limitations of a inneral pyre. The direction of this experimost is an everyled. Moreover trackens pobe were wonbloutally forms in hottle-form and intermy reducing atmospheres which would be

enalty to reproduce

[&]quot; Wantley in Liverpool America 1914, p. 82. 12 dis Hogarth in Illinorated London News, January 24, 1914.

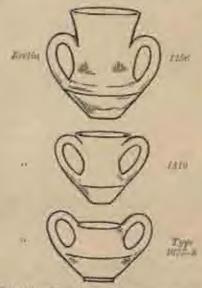
[&]quot; Excuren sage de Namantia, Pl. XXVI. D. " His , pp. 289, 464, 533, etc. , Moscow, pp. 778, 331.

to Belliamunn Squarding; see Note 26 above.

the gold specimen, contemporary with the latest form, from the Fourth



Fig. 11.—SHARE VALUE THOM THOY (SHOOM) CLTY!



FILL) TRUCKS POTTERY (CIPIES HI-V)



POR TE-MINVAS CES PRINT ADD

Schliemann's excessation is comparatively scanty. Perhaps the later finds,

Grave at Mycenne (Fig. 1, a). The earliest model is a silver vase from the Second City at Troy (Fig. 11). The connexion can be seen without the intermediate links in pottery. The original form is common in the vascs of Yortan as well as at Hissarlik, and is therefore typical of Asia Minor. The material of the Trojan propertype also explains the perfection of burnished gray bacchero in this particular shape, which is simply the ceramic reproduction of a silver cup.

The similarities of Minyan and Trojan wares have served to establish their common origin. The differences will be important for living the date of their adoption in Greece. No immature stages of Trojan forms have yet been found on threek sites, and the bucchero technique is perbect. The Trojan shapes were always sumple, but a sure index of date is seen in the form of the handle. In Grecce this is always the flat band, which occurs so mayly before the Sixth City at Troy that it may fairly be accepted as a murk of that settle. ment. No roll-harathe has yet been noted in the Greek unterial. lost at Troy where the bulk of the pottery belongs to Cities II. to V, this is proponderant. The lawl with fluted lip and the ribbed stem goblet are also not represented before the Sixth City. It must however be remembered that the pottery from

is Topic or Jines, Fig. 281; S.S. 6872. One handle is restored in the density.

which are now in Constantinople, contain more numerous parallels. But the Berlin collections are sufficient to show that the technique and forms of Minyan vases in Greece begin with the establishment of the Sixth City at Hissarlik, and go back very little if at all before that time.

I have seperated what has often been said before, that hacehere was the native pottery of western Asia Minor, and have shown that this peculiar grey fabric, with its distinctive shapes, was perfected in the prehistorie period at Troy: From the presence of the same pottery at a corresponding time on the Greek mainland it might perhaps be thought notwithstanding its absolute identity with the Trojan tabrie, that this ware was avolved on both sides of the Aegean Sea. But while excavations have folled to reveal the curies stages of Minyan ware in Greece, they have also shown that there is little possibility of its development among the native labeles. The greature discoveries in central and southern Greece have been thoroughly examined dress by Wace and Thompson's in connexion with their own results in Thesesly, but a broad review of all the material must be given here in order to fix the position of Minyan ware

The chief contribution which the exploration of Thresaly has made to test testages the general history of Green is to isolate the south of the paninsula from the continent of Europe during the whole of its Bronze Age by a guit of modifibie culture. If overland ponetration is blocked, all foreign influence being introduced by wa will tend to be of distinct character and sudden apparance, and its origin should the more easily be traced. It is very necessary to appreciate the contrast between the prohistoric and classical Greek worlds in the complete absence during the former period of the uniformity of culture which distinguished the latter. The Aegean Sea supported a different style of art in every considerable island. The earliest vases of Sipimos, Syra, Melas, Crete are quite distinct from one another, and even when the Minoan Empire had embraced the neighbouring islands, the local fabrics preserved their unfividuality beside the superior style. The coasts were more widely separated than the islands. On the Asiatic shore there seems to have existed a homogeneous art in unequal development, but the European side was divided by a variety of independent sultures, which I will shortly emmerate.

Two modifilite civilisations had decayed in northern Greece before the some errors Branze Age was imposed upon this region by southern invaders.79 The first of these, which extended from the borders of Macadonia to mid-Bosotia or even to the Comminan Gulf was aboriginal, for its art is unlike that of any contemporary culture. It produced finer pottery than any other Stone Age which is known revealing better technique than the early Bronze Age wares of Grete. The characteristic pottery is a painted fabric with bright red putterns on a lustrous white slip, which appears on every site.

Thomasy (1912), mostly from their own anna Waltimea.

IV Probables Thomaly, Cap. 2th. etc.

[&]quot; The exidence has been unhumifically pullished by Was and Paompson to Probagar-

but varies the type of its geometric designs in different localities. In Bocotia a thin linear style was prevalent.26 With the painted fabric are plain warss of equally good technique. A thin red pottery is found in Thessalv, polished black bucchero with currous plastic decontion on Boootian sites. At a later stage of the First Neolithic Period a fine grey. bucklero" was made in Thessaly. These are the only North Greek fabrics. before the actual imitations which bear any sort of likeness to Minyan wang. but a connexion in either case is impossible, for both were extinct long before Minyan ware appeared, and the grey fabric, which alone approaches the technique, was confined to northern sites in "Diessaly, its thin square forms helong to the narive Thessalian group, us do also the delicate patterns with which it was painted in some colour now flaked off or faded, and it shows no affinity with the heavy plastic pottery of Thrace and Asia. In the Second Neolithic Period a new culture flourished in central Thessaly near the Pagasean Unif. Its painted pottery, Dimini ware. 77 is akin to cortain neolithic waves of central Europe which have been found at present in Transylvania Galicia, and South Russia, and it was undoubtedly imported into Thessaly, coming from the north perhaps by sen. This foreign influence did not penetrate to the south of Othrys and elsewhere in Thessaly, in north, west, and south, the native culture was hardly disturbed by the intrusion. In the Third Neolithic Period all the styles of pottery show continuous degeneration through linear geometric wares until no painted fabrics of any sort appear. The native pottery of the Fourth Period is of the most primitive type a mass of plain coarse fabrics, amongst which Minyan ware, appearing frequently in burials and settlements of this date, is plainly marked as an importation Course local imitations of Minyan ware are also found. Mycemean pottery coming later still demonstrates the chronological relation of the underlying strata to the Aegean Branze Age.

Greated Greater

In Greece proper two distinctive kinds of pre-Mycenean pottery besides Minyan ware have been found, both of which for want of equivalent translation must retain their descriptive German names: Urfirels and Mattenderes. There are of course the nondescript rough ware which may belong to any age or are definitely known by their context to be early such are the incised shards from the Herasum at Argos which Wace and Thompson would assign to the classical period. some from the Acropolis at Athens which have been described as Trojan, in and the rough wares which Vollgraff found with Minyan on the Aspis. These have not risen above the universal level of primitive art, and have no comparative value. They might

" Pro Themsly, ja BER

[&]quot; For There is, p. 14 (ABB) p. 114 p. 15.

[&]quot; Op. of p. IS (AS)

Operat p 10 (Bizz Pl. 1; colonied rereductions also in Apple out Sectio, Ph. VIII-X.

²³ Acres Famon, to p. () Punham, Implies Ornice, p. 76. One of these shreets 3) may shally be Tropau, showing the distinctive Wellerians arounded of Other VI.-Vil. but it is real not givy. The others, if and Issai, see Marly to be Cycladic.

of course have developed in Greece as they did in Asia, but the present existence indicates that they did not do so, and there could hardly be a parallel evalution of form without connection.

Urpernes is a primitive varnished ware of good quality. The clay is fines purpose light reddish in colour, and the smooth surface is painted with a wash varying in density from lustrons black to transparent brown in which the brosh-marks are plainly visible. The shapes are elaborate and the ware is thin though it is said to be hand-made. The askes and a boat-shaped vase are common forms. It is being found in large quantities at Tiryis. where it forms the lowest stratum underneath the Mycenean palace." Its northern limit as at present known is Lianokhidi in the Spercheies valley, though sherds have been found so far north as Tsaini in Thessaly." In Physis and Borotia a kindred ware has also been found with inferior black varnish and simple patterns in white paint. This may be a later form. In the Cycladis islands Cefern's occurs at a very early date beside the local fabrics. notably at Phylakopi in Melos is unit at Chalandriant in Syra, in The obvious source of this pottery is Crete, for it is a sometimes not inferior form of the carliest Kannines ware. But the Cream influence, if represented was evidently discontinued, since the forms are different, the black wash does not possess the Kannires brilliance; very rarely bears white patterns, and never shows the polychromo decoration which was soon applied in Crete (M. M. I.). The borrowing must therefore have taken place in the Early Minoan period. and this date is supported by the relation of Urrival's to Cycladic fabrics in Melos and Syra. It occurs in the First City at Phylakopi. If it came to Turvus through the Cyclades, Melian pottery and other preducts should be found with it, but this is not the case. There is of course the possibility that it belongs to some other island; but whatever its origin, it seems to have been a local fabric in the Argolid, perhaps representing an early Cretan contact. From the south it ultimately spread northwards through Scentin as far as the Spencheios. Differences have been noticed in the northern form which may be due to later date as well as local conditions There is no evidence yet to prove the stage of civilisation to which Unfirms belonged, but the certain Cycladic contact suggests that this was already the Bronza Age.

Matematers was so called by Furtwampler and Loescheke to Manual distinguish it from the lustrons Myoenean pottery. Subsequent excavations have shown that it is not a variety of Myoenean ware at all, but helongs to the preceding period on the mainland of Greece, the material from the Shaft-Graves at Myoenac representing the overlap of the two cultures. It is widely distributed, having been found in Attica chiefly at Aphidna, Elensis, and

" Ath With 1813, p. 44

[&]quot; Fee. Thornty, pp. 145, 178, Flow 192-

of Prof. Thusandy, pp. 1917. Rev. des Et. pringers, 1912, p. 270 (H. Marina).

[&]quot; Phyliologi, pp. 86, 248; B.S.A. xru. p. 16.

H 'Eq. 'Apx. 1899, p. 99, PL 9.

[&]quot; Myk Burn, p. rl.

[&]quot; AG. Mat. 1886, p. 385, Pl XV, F 'Es. 'Asz. 1898, p. 31; 1912, p. 1,

Athana," in Megaris " and Aigina," at Mycenae, " Tiryns," and the Argive-Heracum," in small quantities at Orchomenes and Thebes " in Bosotia and at Geraki in Luconia m and in abundance on the Appis hill at Argos. " On nearly every site it is associated with Minyan ware, so that these two fabrics were contemporary, both belonging to the Bronze Age. The name very well do-ribes the appearance of the pottery, which is dull throughout, The clay is palest yellow verging on greenish white, coarse and sandy in substance with amouther but still porous surface on which geometric patterns ero painted in dull black colour. The decoration is simple. Vertical division predominates; the frequent scheme of long panels crossed by diagonal bands suggests derivation from protective roping of the original vessel. The shapes are as primitive as the ornament mostly consisting of shallow bowls and wide-morrhed store-jars with pointed base. Exact analogies in fabric, form, and decoration are found in the Middle Cycladic pottery of Malas " and therecan be no doubt that Mathmaleres represents influence from that source. It would be impossible to distinguish some Cycladic pieces from those of Aigina or Argos, but as a rule the Melian clay is even coarser, darker yellow, and has a surface slip. But, as with the surface Universe, there is no sign of continued foreign contact. No mainland examples show the naturalistic devoration which Melian pottery soon affected, but the primitive schemes persisted throughout its history, or developed, as in one variety at Argos, to a more elaborate geometric style. It must be admitted that Matimalerei, like other native fabries, is a poor sort of pottery. The extreme porosity of the clay renders the vessel useless for holding liquids. One is lumediately reminded of the water-coolers which are sold in Aigina at the present time. for they are made of similar open groundsh clay, and it some likely from the distribution of the prehistoric pottery that this island was an important centre of fabrication. The day of the Argive plain has the same pale colour and the desp-deposit of this pottery on the Aspis points to a local fabric there. It must be noted that there are two varieties of Mathmaleres at Argus. Reside the mural coarse ware Vollgraff found a delicate fabric of time clay with pollshed surface and a morel system of minute geometric ornament: This miniature Argive fabric is the prohistoric ancestor of Protocoriethian pottery the descent of which may be clearly seen in the intervening Argive labrics of Mysensan and Dipylon Geometric wares. These are the only distinct types of pottery, besides Minyan ware, which have yet been found in the parts of Greece where Myconean culture afterwards flourished. Both belong to districts which were most exposed to influence from the progressive art of the Aegean islands, and both appear in fact to owe more to foreign confuct than to matter invention.

[&]quot; sterop from a St. L.

[&]quot; All WIR. 100 % p. 165.

H 'Est 'Apr. 1295, p. 205, F. X.: 1910, p.

[&]quot; Mal Thomas, p. 2.

¹² Ach Marc 1918, 7, 14

Argue Hermann, H. p. 72.

or Orghoneimo, L p. P.

[&]quot;EA APE 1910, p. 281.

[&]quot; B. S. J. avl. p. 72.

H B.Q.H. 1908, p. 50.

[&]quot; Phylocopi, Ti VIL etc.

In the extreme south and west there appears to have been no foreign Bourk and West intrusion before the Late Minoan period, and course local pottery of that date is found, as in Thessalv, healds the superior imported wares. At Geraki in Laconia such primitive tabries were found with Mathauleres, and may therefore belong to the period preceding the Mycenson." The combine of Western Greece as a whole is revealed by Dörpfekl's discoveries beneath the Alus at Olympia. These are the remains of several houses which were destroyed and covered with a bad of sand to make a level floor for the A sheri of Late Mycenean pottery, buried under a floor in conditions which preclude the possibility of later penetration, proves that the settlement was later than the Mycoman Age; and it seems likely from the circumstances and the objects found that it was very little earlier than the foundation of Olympia, laying been in fact destroyed for that occasion. But in spits of the advanced date, numerous stone implements were found in the houses, and most of the vases which imitate mature metallic forms, were made by hand and burnt in an open fire; that is they are local copies of foreign models in Similar evidence comes from the much earlier contact of Minom and native entures at Kakevatos (Pelos) be and from discoveries of Stone Age settlements in Actolia, Leukas, and elsewhere in The native populations preserved their primitive independence until a foreign invasion brought the sudden use of bronze; and at Olympia probably of iron. The conditions are repeated to-day in Australia, where the modific native chips improved stone axes from bottle-glass and telegraph-insulators, and adapts steel blades to the same primitive type from burrel-hoop and broken sheepalleura los

It is hardly processary to examine Crote in seeking an afternative origin cross for Minyan wure. The history of Minoun pottery is perfectly well known down to the time when Crotan cultipe was imposed upon the rest of Greece LM.L = c 1000 a.c. Bucche co was made in Crote as in most other centres. but was soon displaced by the black Kambies enamed (E.M.III.). A grey fabric is fairly common in the Early Minoan periods, and su elaborately incised form seems to be an archarstic reminiscence of the noolithic pottery 100 Cretan havehere appears again among the many fabrics at the beginning of the Late Mmoun period, but at every time the shapes were entirely different from Minyan and Minyan ware has not been found in Crete. We have seen that it occurs as an obvious importation in Melos and it is unlikely that such pottery originated in any of the northern islands, though it will certainly be found there. A parallel development would prove that the island belonged

[&]quot; H.S. 2 at p. 72. Semm monochronn

aherds som to show Minyan influence. 1911, 1911,

p. 163.

Weege points not that some of the ore arnale must have been practically identical with North Italian pottery from the Terminare sattlements. Others would find there parallels be the Villagora faliries The- am probably the

exclined. Hellando, documento that we lines,

^{- .}tin Min, 1969, p 250.

[&]quot; The Unds are sufferted in Pos. Thomsey,

Sparmons in the British Missings and che bire : B.M., Hamblood to Exhaugrouphine Outro ione [1910], p. 111, 12, V.

Harrist Boyd, Georges, p. 50, Pl. XII. (Valle).

to Asia from the beginning. A southern Asiatie origin, in Cyprus or Syria, or in Egypt, is of course impossible.

importation of Minyan Ware

Minyan pettery must therefore have been introduced into Greece from Troy. The question too arises. How much of it was actually made in Green ! For the answer I can bring no ovidence, but only an inconclusive haluneing of probabilities. It is the grey buckers that causes heatation, for the inferior monochrome wares do not occur at Troy, vary with different sites obsewhere, and are therefore local fabrics. At first it seems unlikely that there would have been extensive carriage of pottery across the sea, and it is tar more unlikely that burchero was ever shipped to Asia. But this was the best portery of its day in Greece, and a cheap substitute, as we have seen; for silver. It is significant too that Minyan yass are all cups. Where are the jure and jugs! They have been found in normal quantities at Troy, but not in Groces. Vollgraff illustrates a unique handle of a large of nochos in red-brown ware from the Aspis, and mentions a pithos in this labric and a grey fragment. The Orehomenes finds should contain more, for some sort of jug must have been in use. At Argus and in southern districts. the native Milliondere's seems to have supplied such utensils. But the present eritlence is that the larger Trojan vases hardly got to Grocee at all apparently because they were not so attractive in shape or fabric as the metallic curis. This selection of forms looks like importation, for if any Trojan pottery could be made in Greece without actual models, all might have been. So with technique; the imitative red or black wares, which form by far the greater part of the Greek material would not exist if the superior grey burehere could have been made locally. The relative proportions on the Aspis were in this order; red and brown, Mattendered, black, grey buckhero, the simple native fabries in greatest quantity, closer imitations next, and the standard fabric least of all But however remarkable the Trojan clay may be, it would he unsafe to argue that fine Minyan ware could not be made in Greece, for clay is the commonest of matural products. It is worth while to examine the pottery of historical date for parallel fabries. In Bosotia, where Minyan ware is chiefly found, the clay is notoriously had, coarse, and chalky.100 Attue clay is good but equally unsuitable for burnished grey ware, being highly ferruginans and not fatty. There is only one clay in the later vases which would give the required result with proper hundling: that of the Argive Plain, from which the sort yellow Protocorinthian and Corinthian fabrics were made. The unsurability of other Greek clays can be seen in the numerous inferior unitations of Corinthian ware. The fine variety of Mattmaleres from the Aspis (above p. 150) shows that this clay was worked before the Myceman Age. But was the proc of reduction understood? If so, it was very sparingly applied. Corinthian clay was eviden or never used for bucklere in later times, and a strong argument against its use for Minyan ware is the small proportion of fine grey pieces in the Aspis pottery. If this was made at all in Green it must have been at Argos; but Orchomense

ise White in Jearanch, 1889, p. 78 ("Geometric in Venn and Griechenland").

seems rather to have been the centre of distribution, and the locality favourimportation by sea. For the present I am inclined to think that the standard 'Minyan' bucchero was only made at Troy. In any case it is not of immediate importance to identify the place of manufacture, if the Asiatia connexion of the pottery is enficiently established

The paneity of shapes, if confirmed by the material from Orchomenes and future finds, will be useful for estimating the degree of Trojan influence: which the pottery represents. These cups cannot possibly have come to Greece by trude for apart from evidence against such commerce, their distribution and association with domestic and sopulchral remains an many sites show that they were brought and used by a foreign people. The succeeding Mycenean pottery was not only introduced in complete form, but soon developed style and fabric which differ from the contemporary Minosin, and were altimately carried back to Crote. But the Mycenean power in Greate was secured by a permanent migration. The Trojan though exben-ive, seems to have been less than that; rather a colony or military occupation.

It only remains to find the relation of Minyan ware to the other main- stratificance. land fabries. Most fortunately those are all brought together at the control site of Orohomenos. This city has now been excavated to the rock, and four prehistorie strata are distinguished in its remains. 197

I [Randbantensolacht] The pottery of the Viret (lowest) Stratum is of two kinds; polished monochrome ware, red, brown or black, and a painted fabric with red linear patterns on white slip. The black pottery, which is most plentiful here, is the peculiar fabric which has already been mentioned (p. 148), a very thin fine burehers decerated with small knobs applied in simply patterns. It decurs on neighbouring sites the farthest to the north being Drachmani (Elateia), but has not yet been found south of Orchomenos. 'The red-on-white painted fabric also represents the southern limit of North Greek Neolithic culture. It belongs to the homogeneous group which extends all over Thessaly and was no doubt aboriginal. Architectural remains were scanty at Orthonoros, but enough to show that the type of house was circular with lower courses of stone and superstructure of mud brick. An iron naif and a modern Greek shoe from the very bottom of this assentific deposit provide a useful check in the scientific valuation of isolated finds.

II. [Bothrosschicht]. The Second Stratum derives its name from the architectural peculiarity of deep pits sunk in the house-floors. Their purpose is not known their effect has been to mix the pottery of this stratum with the remains of the previous settlement. This pottery is the varnished ware called Urfernic Remains of houses show an elliptical ground-plan, and several periods of construction.

out My account to a very short commany of Stalle's report in Orchanous t.

III. [Adderwykenisch] The reason given for the German name is that this Third Stratum appears to be contemporary with the shaft-graves of Mycemae. The end of it did no doubt approach that point of time. Its pottery is Minyan ware. Other new features are rectangular houses with several small rooms and cronching burials (Hackengpüber) in and between the houses. The deposit is both wider and deeper than these of the preceding sattlements. In our spot where the Neolithin and Universe cities are not represented, no less than ten meressive building levels in a depth of twelve feet testify to the long duration of the Minyan scattlement. Three main periods were distinguished in these levels, during which the houses show improvement in size strength and regularity; but no degrees of progress could be observed in the pottery, which appears at first in the last stage of development. In relation to the preceding stratmu, Bulle found 'the change in all respects so complete that here too a new occupation by an alien race must be recognised. Moreover the accumulation from destroyed must walls in the Bothcosschield [11.] is at several points so high that it points to violent destruction and resettlement; while in obvious contrast the several periods of the Aeltermykenisch stratum [III.] produce levels of much slighter bulk, which at times tun into one another and so indicate a peaceful and uninterrupted occupation."

[V. [Jungarmykenisch] The Mycenean Stratum. This lies immedintely below the present surface of the ground, and is half to three-quarters of a motive thick. Its pottery is ordinary Myconean ware with a large proportion of memochrone shortly. No remains of buildings have been found but good pieces of painted wall documetion show the importance of the Mycensean city, which the neighbouring thedos tomb would otherwise auggest. The value of this stratum is that it gives the chronological relation of Minyan to Mycenean pottery. The latter is too scanty to show by its style the exact time of the change of culture; but it is important to note that Theber has produced some of the carliest Myosnean vases that are known. The bee-hive temb of Orchomenes with its line ceiling suggests

a date contemporary with the first occupation of Mycena-

The historical significance of these discoveries need hardly be explained The curiest civilisation in threese was the Stone Age sulture of Thessalt, which extended as far south as Copais. This was alloughed and untouched by foreign influence. Another culture was established about the same time in the Pelopounese, where its black-washed pottery (Uritrais) forms the earliest stratam on the rock of Tirras. This Argive culture may have been originally derived from Crote; it was certainly in contact direct or indirect with the Cyclindes and may therefore have known the use of brouze Its beginning can be dated by the Cycladic contacts in the Early Mineau

period of Crede (a 2500 n.c.). The next event was the northern advance of the southern power. It thrust the neolithic natives from Orchomemes, and occupixel their city, penalinting as far as Laanokladi in the Spercheirs valley.100

where the sequence of strata exactly agrees with that of Orchomenos; but Thessaly, like Western Greden continued to enjoy its Stone Age. The date of the Second City at Orchomenos cannot yet be fixed, but it must have begun before 2000 no., and its duration was considerable. It was ended in its turn by the intrusing of a harile power, which Minyan potters shows to have come from Troy. The Asiatic conquest was complete, for the new bucchero anceceds Urfirms on every site, spreading apparently from Orchomenes, to Lianokladi, Zendia, Dimini, and further moth in Thessaly, and southwards through Attica to Aigina and the Argolid, where a new settlement was founded on the Aspis. Here may be the origin of 'Cyclopean' fortresswalls. It is probable that the beginning of the change is dated by the chronough earliest Minyan contact in the Cyclades. Melce was then protected by the Cretan power, and it is likely that the Minyan potters came there from Greece If Minyan ware came to an end soon after the Minoan invasion (L. M. I. =c. 1600 a.r.), the beginning of an occupation which is represented by ten building levels at Orchomenos must go well back into the Middle Mineau period. This agrees with the evidence from Phylakoph 100 where three-markers of the Minyan pottery escently found occurred with Cretan Kanaires ware (M. M. II. begins e. 2000 B.C.). It would coincide with the beginning of the Sixth Circ at Hissarlik, when the mature stage of native pattery appears to have been marked. On the aminland Upfignia pottery was no more beard of but a dull painted fabric, adopted from Cycladic are flourished in south-cust Greece by the side of the foreign buckers. Both kinds of potters have been found abundantly at Argos and in Aigina: at Orchomenes Mattmalerer is pare;

The prolonged Asiatic occupation was broken by the Minoan attack first in the Argolid where the fortresses of Mycenae and Tiryas were taken. then at Orehomenos and in the north. Simultaneous Minoan landings at Pylos and no doubt elsewhere, and early expansion to advanced positions, such as Pagasar 116 and Rhodes enlarged the Myceronan realin, and began to unite the whole of Greece in a uniform civilisation. The shaft-graves at Mycenae mark the meeting of the powers: Trojan pottery and gold lay there side by side with Cretan and Cycladic treasures

The last phase has been revealed at Troy. The Sixth City, wrongly preserved called Mycenean, shows a purely native culture with considerable Minoan contact. It was of very long duration and contemporary in its later period with the Mycenean occupation of Greece. If that event was the conquest of a Trojan province, subsequent relations across the Agean could only have been hostile. Agamembon Trojan Expedition begins to appear as a rational and even necessary undertaking. Troy was sacked by the Auhacanswho certainly possess of the Mycentean power, and they appear to have desired only the destruction of the town, for there is no trace of a considerable Aggean ettlement on the site. Sub-Mycenean shouls are common in the

[&]quot; #28. A. xvil. p. 17.

Ath. McL 1899, p. 262: tomin containing very sarry Myceneus petters.

Severath City, and doubtless represent the pottery of the conquerors. The traditional date of 1184 nc. for the sack of Troy cannot be far wrong. The great result appears to have been the foundation of the Ionian colonies. Hogarth has suggested that the remarkable failure of the Myreneaus to get a footbold on the further Aegean shore was due to the resistance of an Asiatic power. The new criticace extends his argument; the absence of Minoan influence from the Greek mainland during the pre-Myceneau period, like the no less significant absence of Minyan ware from Crote, was due to the hostility of the same Asiatic power in Greece. That this power, the natural enemy of the Minoan and then of the Myceneau state, had its most formidable post at Troy, is established by literary as well as archaeological record. Its origin and extent in Asia are not yet known.

Greece then was occupied by Asiatics before the Mycenean Age. The conclusion is not surprising, for Aegean history displays an endless struggle for the possession of both shores, and it is the sea rather than the continent that determines the political control. The latest transference is now in progress: the first recedes far back into the middle Bronze Age. The learned Persians after all were right, Florodotus would agree, and then about a progress will throw upon racial and economic questions. Minyans, Pelasgians, or trade-routes, will I hope, be discussed by others. It is anyhow beyond the scope of a paper which seeks only to present one part of the archaeological evidence.

E. J. Forsnyke.

III Jania and the Kan, po \$7.

NOTICES OF BOOKS.

Auswahl archaischer Marmorskulpturen im Akropolismuseum. Von Hass Schrauer. Pp. 57, IX Plates. Wish: Alfred Holder, 1913.

This great work, long awaited, will be easierly welcomed not only by archaeologists but by all to whom Greek are analess my appeal. The plates and the illustrations of the text-volume are unoug the finest recent specimens of the art of reproduction. Type, paper, and finish-and one must resignedly add cast-are all on the scale of an edition de force. The Imperial Austrian Institute is to be congratulated starnly on the whole appearance of this beautiful volume. The illustrations include three watercolours by the Danial artist Maris Henriques and one by Gillhiron of Athons. Of these the first three are beautifully executed works of art, in which the existing colourtraces on the statues are very closely reproduced, but they contain too queli of the actiat's personality to give a very faithful reproduction. M. Gillistron's shotch is of great ratus as a corrective to the crude stauring of the designs to Lermann's Attorischicke Plantik. The photographs are the work of Rudolf Robrer of Athems, and they were executed under Professor Sphrader's personal supervision. It may be an error in taste, but we venture to assert that the excellent half-time illustrations of the rextvalume give an even better idea of these wonderful mesterpieces than the more cently plates in heliogravure. All however are excellent, and the reader who is unable to visut the originals in Athons will find in this book the latest resources of photography and printing to assess his imagination. Professor Schmidge's text is all too short. There is no one living who knows the Acropalls northles as he does, but he has only spared as a little of his store, and put us off again with a bantalising promise of further benefits to come. In futy-seven pages, large it is true, but considerably taken up with illustrations, he has not space in which to do more than give an admirably ancount account of a score or so of statues. In the Introduction we have an interesting disquisition on the reasons why the unriously individual physiognomy of the Korsi has suggested to some ornics an early form of portrainire, and no instructive picture of the growing commercial wealth of Athans under the Poisistratidae as shown by the fact. that the Aeropolis votive offerings come analyly from the middle classes. The rest of the book ismalate of a detailed discussion of a low individual statutes or groups of statutes, and the evidence which they provide for the early listory of Attic art.

The most important auggestion of the book is one which will certainly meet with considerable discussion. The graneful and excite maidens of the Arropally have usually been attributed to the workings of Ionian, mainly Chian, influence on the sculptors of the court of Peinstrates, but Prof. Schrader wishes us to see in them products of Parism art. His argument to brief is that the most agnificant of these Kerri, Non 622, 675, and 594, are themselves imitative of an archetype which he sees in No. 1300, a much muillated torse which he has recently put together humself. This in its turn be connects cloudy with the Caryatids of the Chidian Treasury, with which of course No 882 has frequently been compared. Accepting Heberdey's theories on the Chidha frieze, his sees in those figures Siphnian dedications assaredly prompted from the neighbouring island of Parss, which together with its marble quarries "must have had a flourishing school of sculpture." But for such a revolutionary theory the chain of evidence is surely weak. Heberdey's arguments about the Chillan triese are far from proven; some would hald that they have been disproved : there must be many who with the writer see in No. 1360 far more points of difference from than of resemblance to, Noz. 681 and fift, a.g. in the skirt-folds gathered in the left hand; and we have no interary and little monumental evidence for an early school of Parish sculptors. It is even dubious if 1360 is in Parism marble, for the crystals of its material are much

larger than those of the ordinary product of the Parian quarries. Professor Schmider will have to produce more cogent evidence before his new view is commonly accepted In another point he proves a reactionary, for he has been persuaded by Fran A van Netoliczka to return to Kalkmann's old view that the ablique months of the Kaons reaches only to the waist and therefore that the skirts of these figures belong to the children and not to the hundion. Fran von Neroberka's view is based on practical experiments with setted drapery, which seemed to show that certain folds and comme observable on the statues sould only be produced by a short garment of this description. But assuming that these experiments in actual drapary are correct, we are still far from the desired conclusions, must the statues are full of details quite impossible in nature, but intelligible in an early stage of art. We have up more right to argue from the model that the details of drapery were so and so than we have the zight to conclude from the statues that Parian maidens were slant-eyed or half red hair. The costume of the Koroi represente an artista convention which cannot be presend in detail, but it is hard to magnitude a Greek arrish of the first rank even in the sixth century painting the lower part of a garment with a totally different colour and with retally different border-patterns from the upper part but with the same colour and with the same border-patterns as a different garment worn above is. Besides, No. 682 provides the disposof, for in this status we can see a small pince of the disputed garment above the girdle in the oper of the triangle formed by the muntle folds. This surface is white, not green like the upper part of the chiton, so that the change in colour would have to take place, according to Professor Schrador's view, not at the saint but somewhere between the waist and the neek.

One of the most valuable new suggestions of the book is that which connects the Kore No. 681 with the Niles in the pediment at Defphi, a suggestion which embles Professor Schrader to propose Antenor as the sculptor employed by the Alamastanities on their new temple front. The commixion of the scaled Athena No. 625 with the Children frieze by reason of its reisod front is also ingenious and convincing, but space procludes a more detailed appreciation of the many valuable conclusions which Prof. Schrefor's intimate acquaintance with these markles anables him to draw. In two points of fact we must differ. Professor Schmoler, following Lermann, calls the chiton of No. 685 rod. There are not many remains of colour on it. The red traces can be ascribed to the remains of the hair colour and the red ameander border, but the green stains can only belong to the original chiton surface. More important is the question of the date of No. 688. Professor Schreder on p. 40 writer as if this statuette had been found in the Persecular, but of course its discovery was made in the Propylaca, where if was found among the foundations had down in 428. Its date is nearest 450 than 480, and the attempt to make is pre-Person would greatly complicate the chronological development of fifthe uting Alais art. In conclusion we can only repeat that this is a book of the greatest importance written by an expert whom first band knowledge of his subject is No one, he he ertist or erchnoologost, will read it without sincerely hoping that Professor Schrader's labours will around in the near fugure to some of the less known but no lose he antiful works of what he so apply calls the Attic quattresente. (r. Th.

Antika Portrats. Von Richand December. Pp. 13x, 62 Plates. Tabulas in asum scholarum VI. Bonn: Marcus und Weber, 1912. M. 12.

for Bichard Delorack's work on ancient portraits all take a very high place in the literature of iconography, and among the many useful monographs of this series come describe process. We in this country may well feel curious that a book with exty-two collective places of such superlative smalleness, besides many half-tope discribing in the rext of almost equal value, could be produced at so moderate a price. The submine makes no slaim to an exhaustive treatment of the subject. A short introduction is followed by a brief account of each place dealing with the literature and giving a full habbegraphy. There is no space for a complete criticism or even for much discussion of

divergent views. Nor of course are more than a small fraction of the portraits of antiquity reproduced; but in regard to these which are deal; with most of the material for discussion is provided. The plates of coins, gener, and ramees at the end are of especial value. The introduction is intended rather for the amateur than for the similari, and the conclusions laid down are of the generally accepted type. One may perhaps doubt whether the dedicatem of individual statues in temples was so much to gain the protextion of the deity as to make a symbolic gift of the offerer to the divine service. Early athlete status and have originated in this way. Do Delbrück in discussing the gradual development and increase of naturalism in portraiture calls attention to the fact that idualism had not alimi not even in the ages of greatest realism. Thus ideal portraits of Alexander belong to the same period as masterpieces of Hellimistic individualism, and even in the later years of the Roman empire we find the two tendencies side by side. In discussing the history of Egyptian partraiture the author seems to take for gesited a too regular line at development. Naturalism grow rapidly and culminated in the twelfth and eighteenth dynasties, but the later artists tended to react in the direction of convention rather than to continue on the saint lines. Dr. Dellguck's view would have greater force if we could accept his conclusion that the two aplended green based boads on Plates II and 12 belonged to the pure Egyptean period. But most critics will see in them works influenced by Hellemstiz art. In Greek portraiture the great dividing line between idealism and naturalism comes in the fourth century with Denietries, Silamon, and Lysistratos. Unsts and death-masks introduced a new standard of likeness. From about this time too or a little later we begun to have the great assistance of count, gons, modelines, etc., in determining personalities. Or Deflerick's position as First Secretary to the German Institute in Rome gives him access to the firest collection of gene-casts in existence, and his treatment of the gone is one of the most valuable parts of the book, though we may feel some doubt of the genuinchess of a few of the specimens, especially the Aboukir gold madallisms in Derlin.

Turning to the plates the greatest interest among the Egyptian group will be felt in the portraits of Akhensten (Amenhotep IV.), the heretic Pharach of the eighteenth dymasty, with his wife Nefertite, his mother Queen Tr, and the exceptionally charming head of his little daughter. Here we find a singularly fine naturallum and suspilicity. which nover reappear in Egyptian art. Akhematen's daughter is one of the few Egyptian pertraits before the time of Protony that might for a moment seem Hallanie. The selection of Greek and Homan portraits includes the interesting though very feeble stable to Cardia now identified with Heraclettes, and several bonds from America of which good reproductions are very unknown. The Aristotle type shown on Plate 19 has now been cetablished by Studingskin, but the Menander of the following plate cannot yet be said to be by any means certain. The Louvre bust on Plate 23 cannot even by a stretch of (magination by accepted as Probany Seter. The hair, eyes, and expression are all those of Philadelphus. 'Amserris' on Pl. 24 is fittingly provided with a ff : the type both of the coins and of the Harrard head seems to be ideal. The Barlin Attalas fram Pergamon (PJ. 27) on the other hand might wall be unqueried. There is no real resultance to the Selamons hast in Naples, while the likeness to the highly probable coin of Attalias (Wate, J.H.S. 229, 1965, pp. 98, 99) is very closs. There is not much resemblance between the no called Berunice II, of Pl. 28 and the coin-portrait of the wito of Evergetes, and the head here again seems rather an ideal representation perhaps of Isia. The identification of the well-known bronze statue of the Torme with Depetities I of Syria is interesting and attractive. The absence of a dindem is explained by Demetrics' lung exile as a hestage in Rome. The Roman list presents fower difficulties in identification. Among the most interesting of the series are the splendid Flavian laity of Pi. 40, the fine male hust on Pi. 45, and the Athens Rhoometalcos, for so long labelled Jeans Christ by the Humant drogoman. The Capitol Elagabalus, and the Terme Gallienus furnish good support for Dr. Dalbrick's claim that the third and fourth centuries 4.15 are the pariod of greatest individualism in classical portraiture. With Constantine we begue to return to a more used standard, and from his time to that of

Justinian portraiture is rapidly sinking towards the himself formality which marks the Byzantine age. The gene and coins are excellently reproduced but 37, 61 No 11 is Energetes and not Philadelphos. In conclusion we must express the hope that Dr. Delbruck will expand some of his identifications in greater detail. A fuller collision of gene with coins is one of the most pressing needs of freenegraphic analy.

G. D.

A Short Critical History of Architecture, By H. HEATBURE STATION, London | B. T. Bateford,

Mr. Statham has written a clear, readable, and generally well-proportioned book. It is not easy to write a short history of a great subject which has been sectionally written about. In the case of Architecture, apari from the difficulties inherent in all abort histories, the task of following a book so comprehensive and living so Forgmoni's monumental work must be apparent to anyone who has given serious thought to the matter; and to, in recent years we have had their face-play and graceful aparting round the subject rather than show work and hard hitting. Mr. Reginald Blomfield has produced 'The Mistress Art,' Mr. John Belcher, 'Essentials in Architecture,' and Sir T. G. Jackson, 'Rosson in Architecture'; all works dealing in a genural way with the essilicties or science of the subject, and only incoloutally lateurical. Mr. Bantster Flotcher's 'History of Architecture on the Comparative Method' has been for some years in the field, and has passed through two or three editions. Lastly, there is Prof. F. M. Simpson's 'History of Architectural Development' written for Messrs, Language's series. Both Prof. Simpson's and Mr. Flotcher's books are, of comes, histories, the former heterogeneous Ithough decidedly useful, the latter, the most serious contribution which has been par forward in this country since Fergusson. Prof. Lethaby's brilliant little book, recently published, to more definition of architecture than history. Mr. Statham's book, alone, professes to be a 'History of Architecture, without any reservations except the word 'critical,' the word 'alors 'being muraly quantitative. We take up Mr. Stutham's book, therefore, fealing that we can compare it with M. Beimach's treatment of the general field of Art, end, in a sense, we are not desappointed. The block covers the ground very wall, and is more consistent in actual fact than its proface and introduction would have it to be. Mr. Stathaur says in his preface that the object of the book 'is to give a concass history of the development of architectural forms and aryba, in such a marmer as to rember it not a more statement of facts in chronological order, etc. : In his introduction he ways, "It has been too much the sustain to divide it [architecture] up into chapters dealing each with a special style or with the architecture of a special country. Mr. Statham does not arrenge his chapters in this way, but that he a matter of little connect. The fact is one rannot get away either from style or nationality lit architecture, so why my anything shoul it ! Mr. Snaham dow not get away from them in his book except when it suits him to do so, and we would not do him the legistice to suppose that he small write a took which was a more statement of facts in chronological order

The book is divided into arean continue or chapters, beginning with architecture before the Greeks, and ending with Remissance and inddern times. These deal in a generally comprehensive manner with the honory of architecture in Europe. There is perhaps some disproportion in the amount of space given to Greek architecture and English Gothic, while diagrams such as the double-page Fig. 65° are hardly wanted in a work of this nature. Some space aread on this might have betieved the proportion of the book, and would have enabled the author, in the compass of the volume to deal bridly at least with Scandinavian, Rossian, Chinese, and Japanese Architecture, which he states in the proface, are away from "the central stream of architecture which

The 'vertical' lines in this Illiamanne shund to left out or re-mijuated. At present they fail to Gluss are the declination of estimate.

etc., for which purpose along they could be intended.

This may be granted, but if the link-Saraceme part of the chapter 'The Saraceme Interlude' had been left out, the back might fairly have been called 'A short critical history
of European Architecture,' especially as with the more comprehensive title adopted, the
term 'interlude' is paritally misleading. The greatest achievements of the linke
Saraceme style were built at a time when the stream of development in an entirely different direction was running basily along in Europe. The inclusion, such as it is, of
work in India is the more to be regrutted, as it has led the author to a scant, and I
volume to think, quite mainly projudioni reference to native Indian architecture, which
might very well have been left out.

In spite of these matters, however, some of which could smily be attended to in a second edition, the book is probably the best attempt in this country to write a short illustrated history of architecture for 'him who runs.' The division of the subject is on the whole excellent, and the chapter from Romanesque to Gothic -the most original part of the land-adopts the outirely satisfactory method of tracing the evolution of Tothic structure ourefully and consistently through all phases of the basifican plan. The illustrations are minurably chosen and just as admirably reproduced. There is a very fair admixture of plans and geometrical drawings, which is quite as it ought to be in a work with claims on the serious general student. The chromological chart of comparative dates and events at the ond of each chapter is a most excellent idea, which may have been barrowed from Vincount Bryon's "Holy Roman Empire." The glossary is also uneful. and there appears to be a good index. There is a somewhat large his of errara, and the book is heavy, but the latter unfortunate quality is inseparable from books of this kind. It is to be hoped that it will pass through more than one addition. Some atrung expressions of personal opinion, out of place in a book which should above all things have width of stor, could thun be omitted, or relegated to an appendix.

Stoice and Sceptics. Four Leatures. By Edwin Bayan. Pp. 152. Oxford. Clarentheor Press, 1913. 44, 6d, not.

These lectures are the work not of a historian of philosophy but of a philosophic historian -a rarer and more valuable species. The writer builtles his own philosophical attainments, but judged by a securely philosophical stamland the account of the Stoic Ethics here given, slight and short as it is, must take first place among the published accounts of the doctrine in our language. We do not therefore intend to depreciate the philosophical value of the lectures when we say that throughout Mr. Beran is and remains the historian. Throughout he seems to be working on a background of history, and the true authorit of all his judgments is the Grasco-Roman world and society. In the and, plandy and indisputably, it is historical and not philosophical truth of which Mr. Bovan is in search. Such an artitude is uncommon in books read by philosophers, and when it is united with the praces of pure English and a vivid imagination it gives an impression of dagular charm and frealmess, sufficiently powerful to exercise the spirit of dialectic and loave the philosophic reader content for once to resign analytic criticism and receive a whole impression. To the historian and to the philosopher alike the lectures should be not only a delight but also a great help to the understanding of a diment phase of thought and of a complicated blateries problem.

The first two lectures give a complete autitus skatch of the Stoic decrine; the third attempts an account of what the Roman world owell to Posidomius, and the fourth summarines the various Sceptical systems of contemporary and later times. It is not Mr. Becan's fault, but the fault of the tradition, that the third and fourth lectures are both somewhat inferior in interest to the first and second and also markedly different in form and character. On Posidomius the source-hunters are hard at work. Even since Mr. Bevan's lectures appeared several fresh attempts have been made by German writers to extend our knowledge of his influence on centemporary thought. It is a good thing, however, that he should not be left entirely to the mercy of the source-hunter, and that attempts should be made from time to time to state the general

results of such investigations in the light of widor issues. But it is unlikely that we shall over objairs a very emuplete or antisfactory isles of his philosophic profition The same is true to some extent of the Sceptics; but we have of course, Sextus Empirison, and the abundant evidence provided by him shows presty clearly that, aroun and amusing as usury of the Sceptical argaments are, there is nothing much of philosophical light or leading to be hoped for from the Sceptics. But surely Mr. Beren is not historically accurate in representing Scopricians as "the expression of wearings, of disgust with the melless strike of tongues, in contrast to 'the modern Agnosticism which often goes with a vigorous interest in Science. Philosophical sceptions in always one of two things or a compound of both. It is an attack on philosophy in the interest of something (such as "science") which philosophers seem to depreciate, or it is an exercise in philosophic thought by one who possesses the philosopher's mind without his impuration. Both scoplissons are found in Greece. Both have a positive basis, the one in science or some other hapless right of philosophic doubt, the other in its own controversal energy and advostness. The sentimental, world-weary sceptic is airely semething of a ligment. The attitude exists; but it does not produce philosophy, nor anything the at all.

Mr. Bevan's main principle of unterpretation is that the philosophers were larn to meet a practical need of men, a great emergency in man's spiritual history that an estimate of their theories must take due account of the historical crisis. The principle is true sest valuable, and brilliantly partited by the use here made of it. Mr. Bevan mes an unhappy and unrestful spirit rained by the oversee and historical of Speciam. It is difficult to repress a magnicion that his vision is unduly passimistic, that the colours are too dark to be true. We must have it to the historical a conscious to decide whether the completion is well bounded or not.

Menschen- und Weltenwerden ein Beitrag zur Geschichte der Mikrotesmosnisse Von Konnar Zusaum. Pp. 45. Leipzig und Perlin : Teutmer, 1913. M. 2.

This short panighby deals with the question of the provenance of the doctroes which Phito puts into the month of Aristophanes in the Spaperous. The chief point a the origin of man in a biactual creature, the subsequent division of even, and the site appear of remains through love. Dr. Ziegler sucks to show—(1) that the spaceh is a parely of Empedicles. (2) that the general theory implied has a basic in Greek mythology: (3) that it is closely related to the measure of man a basic in Greek mythology: (3) that it is closely related to the measure of man a management of man is analogous to the World-egg; which burst semider into Earth and Heaven, whose marriage preduced the world; (5) that all those ideas. Greek and dewish, have their origin in Babylonia. Some of Dr. Ziegler's combinations some rather assurdons, particularly the earlier ones on which everything turns the later stages of his argument fallers lines with which other writers have sireedy made as familiar. This is an interesting little trans

Attische Hellgötter und Heilherben. Von Frantsann Kursen [Religiomgeschichtliche Versache und Verarbeiten, XII, 15and., 3 Heft.]. Pp. 158. Gressen A. Topalmann, 1913. M. 4,80.

This book is a very usuful collection of the cridence communing the healing gods and herom of Attion. Five principal derties are distinguished—the Harra Latine, Attacomechae, Amynos, Asklepics, temphiarnes. In each case the evidence is almostical lecally. The first third of the book is in the form of continuous writing; the remaining two-thirds give the fall text and other particulars of all relevant invertiblence, and descriptions of the subground remains found in the various sanctuaries. The scheme is well carried our interest through the factness. Thurs is not very much new theorizing. The two-scattered through the factness. Thurs is not very much new theorizing.

nose important discussions deal respectively with the introduction of Askiepsos one Attien, and especially with LG. 1649 cuppl. (pp. 16 ft.), and with the oldest scat of the sorahip of Ampharmos (pp. 41 ft.). Kutsek holds this to be Knopla Strabe, ix. 494 c), which he places in the neighbourhood of the Yang kines, here (dentified with the Octobe kines & schooling Apps of Aslian, V.H. tii, 43, etc.

One point of detail has be unediated. An early fauth-century inscription from the Athenna Amyuccan (No. 8 = 4th, Mitt. 22, 1896; p. 294, I) reserves a dedication "Archymic "Apress. Knisch does not consider the possibility that this may imply an identification of the two deiries, like that of "Aristmanches Amphiamos, which he interstrom the similar inscription on the hasis of the mit-status in the "Aristmancheson" of Rhammus (No. 6 = Rpace, 1891, 18)

Antike Schriften über Seelenheilung und Seelenleitung zur ihre Queilen untersieht von Pari Razzuw 1. - Der Thompte des Zerus Pp. vi+108. Leipzig : Tenhuer, 1914.

The aim of this bearnal work is to trace the origins of the methodical therapentic of anger preached and practiced under the early Empire. Somes de ore and Plateria was appropriate are carefully analysed, and the connexions of these works with other writings, especially Postdonius, Sotton, and Philadennes was largely and Galen wept degree welfer are slidy discussed. The author hads also with the relation of Antiochus in Chrysoppes in the third book of the Toscalan Disputations, and concludes that Antiochus application remaining and Chrysoppes since is the source of the attacks on metricipathy in the tourch book of the Toscalans and in the first and second books of the de int. Several controvensial paints are obstructed discussed in appendices. There is an index.

Dikajomata: Auszüge aus alexandrinischen Gesetzen und Verordnungen. Herangegaben von der Grasco Haussus. Pp. x - 252 in Plans. Derlin: Weldmannsche Bunkhamithung, 1945. M. 20

These persons who, on hearing of a mysterious papyrus of great importance at Halls formed riscons of some less liturary unsaterpasses will have been disapposited at finding the paperus in question to be usually a collection of Alexandran untinances | and even so the positive knowledge to be gained from these ascalled Debulomente is less than neight have been expected from the preliminary announcements. Name the less the Halls paperus is a desument of very great value, ranking, among Protomaco paperi; not after the paperus of the Resemb Laws, and being, in one respect at least oven more valuable than it. For these entimatess of Alexandria are purely Greek in character, and are of complexable mapogrames in their bearing on Greek law in general only the laws of Gortyn surpass or even equal them in this respect. The papyrum which is to be dasted about the middle of the third century are, commercial extrade, occupying claves columns of varying width, and in several hands, from an allam as laws and ordinances, Many of the extracts are charly not complete, the scribes missing just what was relevant to their purpose and omitting the rest. In one case an extract is located or rior undersease educial: I.s. It is taken from the law of the city (Alexandria), as the educire, no doubt rightly, interpret the phrate I and in the came of several others a similar source is highly probable. In column viii as quested a better (taken by the editors as a spectropae) of the king and the last document quoted to a lutter of a rortain Apollonius probably the Smapple. The subjects dealt with are so various so the sources from which the extracte are drawn, among them being the prescending to actions for false witness (wer danger, poor), the rights of neighbours, suits in cases of assault, the law regarding legal statements perwins despatished on the royal service assaults by slaves, ouths, sales, etc. For this reason the editors' theory as to the nature of the compilation may be doubted. They regard the extracts in hismanians, i.e. Bewelsurknoten for use in a court of law the principle turn novu curm being, as is well established, unknown to Prodomsic procedure.

They explain their variety by supposing that they concern erroral different processes that even so the difficulty is only lessened, and Vinogradoff's view (Klio, xiii, p. 496), that the MS, is the 'scrap-book of an Alexandrian lawyer' [we must add, resident in the xayas"] seems rather more likely. Schubers, indeed, has put forward a theory (Gill Gel. 4s. 1913, 10, pp. 622 t.) that the Arsinot mentioned in the king's *polaryyaa ('Apondos rije sard 'A[*]SAAssen rathe. II. 179 f.) was a hitherto unrecorded Greek settlement (purhaps not formally a *side!) near Edit and that the MS., which was probably found in that neighbourhood, contains 'einen Ausung aus den Grundlandungen of this soltlement, which get its lawa partly from Alexandria and partly from royal decress. The hypothesis is a very interesting and may prove a fruitful one, but there are obvious adjections to it and it cannot be accepted without caroful examination.

The editoral work is, as might be expected from the names of the editors of the ingless quality; even when the editors are desling, as they often must, in conjectures, and seem to build an elaborate edifice on a very small basis, their hypotheses always proceed from knowledge and reveal sound pulgement; and often an apparently insignificant for is made in their hands to yold an estematingly large result. They print first the complete text of the document, and then, after a general introduction, repent the text section by section, with an elaborate communitary; and they conclude with some general remarks on the chief contributions made by the document to historical knowledge.

As an appearing are published a mumber of another papers at Halle divided into literary texts and 'Urkumien aus profondisches Zeit,' the lative all of the third contary a.v. Neuticr section contains anything of the first importance; the small Sapphe fragment (No. 3) serves but to tantalize by its incompleteness. The 'Urkumien, however, small as they are, are made by the editors' lindustry and materiess to yield results of considerable value, apecial reference may be made to No. 6 with its important introduction on the 'Court of Ten' (Zehmennneyericht)

Studien zur agyptischen Verwaltungsgeschichte in ptolomaischrömischer Zeit. Der Bankade Propagareie. Von Erhard Biedermann. Pp ix + 123. Berlin Weidmann, 1913. M. 3,60.

The scheme of this thorough and business-like little book is to take an important official of the Egyptian windmetration, the Sarokowa ypapparren, and follow out his various activities through the Ptolemaic and Roman periods to the middle of the third century s.tr., when he vanishes. The first vection of the book deals with his other and ritle; the second, much the longest and most important, with his powers in relation to the assessment and collection of taxes, the administration of namopolies, land, public works, and tomples, and the business of transporting corn and provisioning court and army, as well as with his scanty judicial functions; the third, with his relationship to office officials. A list of all the known Sarriami your arris and two indexes somehade the work. The author follows Wilcken's general outline more or less closely, while filling it is sed supplementing it with all available detail, detail occasionally drawn, as is movitable, from documents whose reference to the Samharle youngarres to merely conjectural. But the central point of the author's conception of the office he trusts of in not to be found in Wilsken : it is that the Santhear youngareer was the official responsible for keeping the land-survey of the nome, together with all the lists (whether relating to the persons of the inhabitants or their possessions in houses, slaves, and cattle) necessary for assessing and collecting the taxes; and that all his other powers and agreenties depend on this function. As this is the thread on which the rest of the book is arrang, it is worth remarking that the passage on which the author rules to prove that the Seretical ypapperies was responsible for tropoge the land curvey of the name (B.G.U. I, 145 l. 5) is not a compalling proof, it would satisfy the wording of the original if he had occess to it. That the author is right, nevertheless, is proved by P Tel. 1, 30 and 51 few pp. 23, 24); but it is a defect in arrangement. It may also

be noticed that the remier may well find himself more than half way through the book herical he perceives what it is that gives unity to the various details; if the book had been prefaced with something like the excellent general statement which excurs on p. 33 it would probably help readers by providing them at the start with a signpost. The third section handles (among others) the difficult question of the relations of the Bardaris yapparers; first to the obsequer and later to the orparager. Perhaps no satisfactory theory of his relation to the former can be transed without new material; but the author's view that the orparager and the Bardaris yapparers formula a ningle department (Baharde) for the administration of the nome is well worked out. One may beguing that the title of the book master that we may expect other studies by the author in the name finds.

Die einheimischen Namen der Lykier nebet einem Verzeichnisse kleinasiatischer Namenstämme. By Jon Suppwarz. (Kho, x) beiheit) Pp. 200. Leipzig Dietzrichsche Verlagsbachbarellung, 1913. M. 14.

All scholars who are especially interested in Asia Minor will be grateful to the author for the long list of proper names, personal and local, which he has compiled. The remarks in Chapter I., pp. 37-41 and in Chapter III are of course highly detectable. The supposed Carian genitive in -x (p. 39) can only be supported by alterations in the texts for which there appears to be no justification. The present work ionificum what Karatahanar's Kindellocal and nuncionally demonstrated, that a language very closely divid to the Lyman was at some period or periods specker over a great part of Asia Minor. It is not proved that such a language was ever apoken, by the historic Carians of Lydans, any more than by the Phrygians.

Studien zur griechischen Geschichte im sechsten und fünften Jahrzehnt, des vierten Jahrhunderts v Chr. By E. Pekosky. Pp. xvi + 169, Greitzwald Adler, 1913.

This volume contains a critical aramination of recent histories of the greats of 356 346 a.c. in Green, with spenal reference to the theories fately emitted by Kahratadi (For honors, pp. 1-134). The result of these investigations in to overthrow Kalastock a moved reconstructions at almost every point, and to correlate in the scale the traditional version as established by throte and Schater. In particular, discredit is and open Kahrstedt's arratic chromology of the Phoesan War, and upon his currous contention that Demostheres' policy can stoutly saved the interests of Persia. Little tanti can he found with Dr. Pokoruy's book, which is local on a painstaking study of ancient sail modern authorities, and is gooded by a object and unadventurous Judgment. His treatment of Athenian politics in 348 6 a.c. requires some slight corrections. says that the attempted conversion of the Theorie faml in 348 a.c. to auditory purposes was not the work of Eubalus purry, his forgets that, for all that we know, the author of the proposal may have been an adherent of Eulmbis. In determining the parts played by Dumosthenes and Aeschines in the debates on Philocrates' posco he gives too innels credit to Dem viz the a thirroughly memberious passage. He goes beyond has evaluate in saying that the Thranger force applicated by Philip in 346 a.c. were correspond by Athenian troops none of the passages which he quotes makes good this statement, norther can it be safely inferred from Dom ix. 15. Further, he omits to quote the important latter of Philip to the Athenian curveys, undering them not to follow him into Thrace (Dam. viz. 36). But these blembles hardly affect the value of Dr. Pokorny's complusions, to which his realizes should be able to give an almost may served as-out;

Die Tetradrachmonpragung von Syrakus in der Periode der signierenden Kunstler Von Lauri O. Th. Tudeer. (Reprinted from the Zeitschrift für Nummantik 1913.) Pp. 292. Barlin: Pormetter, 1913. M. 9.

The laboring and paintaking monegraph deals with a series of coins which has perhaps been the object of slower study than any other, yet the mass of organised material here made available would alom justify its publication. The author, however, leader many smaller corrections, has been able to modify the results of his predecessors on some of the latear questions involved. Every com in the more important public and private collections, builds ther appearing in recent sub-catalogues, has been described; and evidence drawn from the coupling of dies and of their pregressive deterioration has been used to determine the sequence of the issues. This method, though on the whole estimactory, is open to two objections. First the combined of the dies in wich compiling has us a rule to be taken by the reader on trust; obviously each case cannot be cheeked by illustration. In the second place it assumes that a die was worked antil it was poor use. That an old die sory he brought back into me even after a considerable laps of time has been shown by Str. Asplant Evans in his paper on Terina (N.C. 1912, pp. 58 = p.). True this is an exceptional case, but in group 4 of the present series reverse die 16 is compleif with obversucing 10, whichers next joined to reverse the 17, 18, and 19, after which we find reverse die 16 again used, this time with a new obver- die 11. The writer explains this by postulating 'xwel Mauxtreche, but before unreservedly accepting the assumption one would like to know more about the organisation of Greek mints.

The earliest signatures and the innocations in the treatment of the quadrup accompany: ing thom are placed in the years 430 425, thus confirming Holm as against Sir Arthur Evans carrier dating though many will not follow the author in putting Session before Emments, who is substantially distinguished from Emmanos, Eu- o and possibly Euro - The pressure of the Atlantan siego is shown in an interesting way in the prolonged usage to which the dies of Groups 3 and 6 were subjected, while the fameses East diss and the sandon appearance of the head of Kore-the champion of Sielly -are plantilly brought into connexton with the national victory. Against the chronology of Evans the last group of tetradjucture is brought down to the first decade of the fourth century, where the decadrachais are placed almost carriedy before 400. We cannot agree however that the fetardrachus bearing the same houds as the large pieces of Kimus and Evacuetus are late copies. I few plated come are described at the end and the author notes that the fact that more of these comes from the same dies as come of good silver goos so show that plating was the work of private, not official, fraud. Reference to the plates would have been samer it come had been eited by the numbers of their dies as well on their cuming number, while the value of the whole work would have been greatly morenasil by an index

Days in Attica. By Mrs. R. C. Bosaveter. Pp. ix + 348; 17 illustrations and 3 plans. Leader. Methods and Co., 1913, 7- 6d.

Mrs. Becampant's book will be relevanted by many readers besides the traveller who goes to Greece without much provides knowledge of its history. People who have lived as travelled smach there will linger over the pages in which the gives her own personal impressions at the land and the people. Even students will find until that is useful, for the writer brings has shack of Atric history down to the present century, and students, repectally students of classical archaeology, until brought face to face with the Byrantine and Frankish remains in Greece, are apt to forget that its history distinct and with the Remain dominion.

Probably Mrs. Recompact has no very profound knowledge of Attachistory in any paried, but who knows where to find her unitarial, and she has the history sense, the inotinging feeding for the salient facts and the salient forces in each period. She has moreover a well-trained critical faculty which enables her to sake the individual mass of

cach phase of Greek are, and to state it clearly. She does not gush over fifth-century. Athens and its political and artistic achievements, but she directs the reader's thoughts along the large most likely to lead to approximation of the lumon and historic importance of these achievements.

The book opens with a sketch of Cretan history, for which the Thosens lagued supplies reasonable ground, and, in this connection, it may be pointed out that the Sack of Consens is usually dated to the fourteenth not the differenth contary, and that the Cretan begenomy in the Asgem can hardly have lasted 2000 years. From Crete the reader passes by Nauplia, Fryna and Mycenas to Athena, travelling from the Lathmustin the footsteps of Theorem. The book does not profess to be a guide book, and, therefore, though Mrs. Bosampust gives a plan of the Acropolia, and some account of the buildings on it and in the town, and of the centents of the nurseums, she is chiefly ancerned with their historical interest, not with their archaeological value. It is theremighly in keeping with this treatment of the subject that she should choose for reproduction a view of the Acropolia taken in 1825, when it was encumbered by a Frankish Tower and Turkish houses. The Acropolia of to-day, swept bare of everything for lifth-century buildings, is a far less human document.

The illustrations are well chosen and unbackneyed, and the addition of a lablic graphy of books of reference should be of material help to the traveller who wishes so study any special period none in detail.

Stitches from Eastern Embroideries from Countries berdering on the Meditaranneau, from Greece, the Near East and Persia. Portfello 2. By Loura P. Pesar, 48 Plates with an introductory note. London: Percy Land, Humphries and Co., 1913. 10c. 6d.

The scope of Mice Pesch's postfolio is sufficiently described by its title. In a series of forty seven admirably designed Plates she explains graphically the mathods of working many of the complicated stitches found in the embroideries of the Neuter East. Thus the approaches her subject from the technical; not the histogram) or attistic side, but in an introductory Note she points as a tondamental difference in character between the stitches used in the Eastern embroideries and those found in English work. In the latter the preference is always for attiches which give pattern effects, and those are therefore, more free-hand in tyle, while the Eastern attiches, being worked by the thread of the material are more rectangular or "geometrical." Any discussion of solonic schemes lies outside the limits of the Note, but Miss Pesch draws attention to the predominant importance of roll in any scheme of which it forms part. The whom a border contains roll, blue, and green, the colour sequence is roll, blue, red, green, and this proportion holds good in embroidery from every part of the Eastern Mediterranean tree.

An index of the unines of the stitches described facilitates reference to the Plates, and notes on their geographical distribution add greatly to the scientific value of the publication, which, within its own limits, could hardly be improved.

The Mossage of Greek Art. By H. H. Powers. Pp. x-336, New York The Macmillan Company, 1943. St. 6d.

Dr. Pawers disclaims any intention of writing a history of Greek Art; his object is to exite such an account of things Greek as shall enable his readers to appreciate Greek circlimation, and the personality, ideals and experience of the Greek. These are most completely revealed in Greek Art, and therefore he takes it as his text. One thing drikes us at ones t Dr. Powers assumes in his public a complete Ignorance of Greek history and literature. This is interesting, because the book is written for an American

pathic by an American writer who is especially well-qualified to gauge the mental repapement of his countryment. A European writer would reasonably assume complete ignorance of archaeology in his resulters, but he would also assume a classical formulation in their administration, and would judge it concessory to explain the Greek conception of a syears, to tell at length the story of Orphone and Eurydian, or to write an excurate on the reasons for the prepondemnce of units state figures in Greek plastic art.

Given the public for whom he writes. Dr. Powers is well advised in exchaling from his pages all discussion of controversal matter. Exception might be taken to many statements in his aketch of the Aegean dividitation, but it has the merit of presenting a consecutive and plausible pickurs of the period, and, — he rightly says in another commetion, the important thing is to give the reader a clear impression to start with. It is a matter of epinion whether, in a book of this kind, it is allowable to 'make a freeze of conjecture than in a purely archaeological treation. We should say not because the reader is not in a position to discriminate hetween fact and conjecture. And sarrely, even in a 'popular' work, it is rather ton free a use of conjecture to describe a 'reception on the Acropolia in the days of Panistratos, or to suggest that the Mourning Athena' railed may be an early work of Phouline.

The conspecting of Greek Art is corried down as for an tiff n.c., and is illustrated by a large number of reproductions of vaces, status, reliefs, etc., which, as a whole are miliciously selected. From the archaeological point of view the heat-informed chapter is that on Greek grave-reliate, of which fourteen are reproduced. The index is disproportionately standar compared with the bulk of the volume, but this contains to much that has nothing to do with things Greek, that the holes may very well be an absplate guide to all that is said about Greek history and art.

Greek Art and National Life by S. C. Karris Surin. Pp. 219 - 274 27 Plates London James Nidor, 1913;

Greek art may be studied from many different points on view. There is a cefinite and innourable place to us interacture for books which deal with it not from the scentific bin from the imaginative side. Provided dways that the writer has power of original throught and the artistic sense. This book displays neither of these qualities. The outbor unfortunitally for himself, has a fatal facility for phrase-making and his phrase-run away with him. They are quite affective, but an inadequate substitute for thought. His imagination also runs away with him, and this is the greater crime because the reader (pre-simably without expert knowledge) in outcrely at his many

There is a dreadful sameness in the disarrations of beaks of this also, and the election given by Mr Kubies Smith does not specially illustrate the point which has also be unforce, rig. the bulinum connection between Greek art and Greek national life.

Greek Sculpture and Modern Art. By Sie Charles Willierus, Cambridge University Press, 1914.

It is a deplorable tendency of many arterities that they fail very largely to see the matinalty of art history. The moderniat, whose knowledge of Greek art is discussed unainly from a set of dusty saces in an artegalisty, rends to dismiss it as old-fashbound channesi stuff with very little bearing on the problems of to-day, and the classicist in his term in all too ready to view art from the standpoint of archaeology and utterly 'problem's arouses our loops and expectation of a more synthetic treatment. On the whole however, in spite of some uncollent passages all too few and far between this book ready two reprinted legistics to the stallents of the Royal Amademy—tends to seep up the dal antithesis on the part of the author as chassicist and a moderniar contributor to

the Times, whose entreasm is premed in an Appendix. Briefly Sir Charles claims for ancient art a superior technique and a superior power of selection. His controversy with his critic turns mainly on Rodin's 'La Vieille Heaulmière.' Is it or is it not a 6s subject for artistic representation'

Both the author and his antagonise wholly forget that such starnes as "La Vinilio Hamilmière" are common-places of Hellenistic art. The persistent view that Greek art stops short with Lyxippus and even begins to decline after Pheidlas under its time-humanest appearance. A paragraph on p. 56 brings the old charges of dramatic somationalism

against the Helionistic ported.

Greek art, as a matter of fact, passed through almost every eyle of development which has been observed in later art-history, and the reason why the Greek development is so much more valuable than any other is possisely because here and here afone we have art evolving from without more the very beginning to the very end, from budy-hand to mound childhood, without my very everwhelming indhoness from without. The materialist, the futurist, the impressionist are familiar among lighters to any one who will study Hellonistic sculpture, but so long as we close our eyes to all rechnical developments after art has once passed the month of absolute we shall never read the answers which the artist of Perganent and Alexandria might well give to the modern student.

The book is neared by some unnecessary errors. Under Plate XVI, we should read Corgotto for Cergo. The centaur shown on Plate XIX, is the white murble house copy not the breedt statue of the Capitaline Massian. The title of Plate LTI, perpetuates a circum blander already made by the author in the light edition of the Cambridge Companion. In Plate LXII, we read Ninbide for Niobid. On p. 12 we should add us final a to Martree Toloranes, on p. 14 Pergameno is attracted arity expanded into Pergamenoan. On pp. 4-5 we have very questionable the one about early Grack technique. If the Delian figure of Nicandra is probably brived from wood carving, the Sanutau source is certainly connected with bronze-work as we might expect in the traditional both place of bronze-esting. The thin parallel grooves of the drapery are derived from clay-not from small-technique. The Tanassantic shows very little state of wood technique, but a great deal of primitive stone technique. The deg-booth hair pattern of the Acropolis Korre is due to no influence from wood. It is the most pennutive form of chase work—a screek of plain strokes on three adouted a square radge. No wood-curver would have drammed of such a process.

The Plates are usually well known and are of pather and past morit. When the Mischophorus is so confidently labelled 'Apollo, one is almost surprised not to find a name given to the Korn. A few loss known illustrations such as Plates 21, 32, 35, 35, 68, 73, 78 are very subsume. The author is at his best when he midding, as on pp. 36, 37, with what he calls the Describe of Arthritis Equivalence in Nature and Life, but he ought to original to us more cloudy that the Grocks as wall as the Moderns rose in revolutionalized it.

Die Anfange der griechischen Philosophie. Von Jons fluxxir: überseist von Else Schenkl. Pp. vi+343: Tenhagr: Leipzeg.

This is a translation of the second adition of Europe's Easte Greet Philosophe, appropriately dedicated to the Congress of German Scientists and Physicisms which mot at Vienna last autumn. There is of course no better, somer, or more interesting account of this puriod of thought than Probess Burners, and we congratulate the German student the more on the present of a translation because Burner's suggestions have not always received in Germany the attention which they deserve. The book should be given as the translator says, an homogred place beside Zeller and Geometre's and even the taxeling light of Hermann Dadie should not bland German residers to Burner's contributions to the philadegy of the subject. The translation seems to be well expected, but

on p. c. Prof. Beare's book is numeroscally given as "Greek Thinkers of Elementary Cognition." For "Thinkers" resul "Theories." Fran Schankl has soon to it that the German reader shall be better off as regards Indicas than the English

Homer, Von Grozo Fissian, Erster Tail Der Dichter und seine Walt. Zweite, durchgeschmis und vermehrte Auflage. Tenbuer, 1914

This is a second edition of the agreeable and successful work which some out in 1907. The author has taken account of the literature that has appeared since that date, and also as he says of a number of French, English, and Italian works which were neglected in the first edition. His standpoint however is smallered, and the book nucleaged. The standpoint is one which may fairly be called obl-fashioned, and the repetition of so much which no longer holds good seems unfortunate for the somewhat elementary residers for whom the book is intended. About a hundred pages also are diavoted to the account of the Honeric Questian, without which no manual is complete. One would have been glad to have more of the author's 'eigene Areaicht.' This however is promised in Part II, which is to contain an exposition of the whole of the poem.

T. W. A.

Homerische Aufsätze. Von Dr. Apourn Rousies. Teabner, 1914. M. S.

Adolph Roemer died on April 27, 1913, not long after the publication of his frictorche. Affects—to der Homerereit, of which a motice by the present reviewer will be found in the Casnoul Review. May, 1914. His had desegned a companion work, traduction of our Ecoper but only fragments of it were found at his death. Of the three receiver contained in this book, the first had been funshed by the nother, the meand and third owe their publication to the care of Belmer. They are entitled (1) him ornsess and selfgentiases Wort liber den Kanatalasrakter der homerischen Presie, (11) Der Kanatalasrakter der homerischen Presie, (11) Der Kanatalasrakter der wenten Teiles der homerischen Odyssee. (11) Einige Probleme der trettermeschine ber Homer. They all contain regordesty expressed criticism, anally in opposition to prevailing cients and often, given the ancestanty of the subjective method, sound. The results appear more successful than these of the sunwhat paradoxical book which came out her year.

T. W. A.

Athens and its Monuments By C. H. Welles. Pp. xxiv + 412, 262 illustrations. New York; The Magnillan Co.

The course of new discovery and investigation offers plenty of some for each new book on Athens as show an advance on its predecessors; and Professor Wellier has availed fringed tally of his opportunity. He has avidently kept himself well informed as to the mean recent theories; the child difficulty in writing such a brook as this is to know exactly how auch to put in how far to state the arguments on both sides in controversial matters, and how far merely to give results or conclusions. The limited size of the work competities author to adopt this best method in almost all cases; but he is careful to state when ever uncorrainty exists. The result may sometimes be somewhat continuing to the student, but at least he will feel that the case is put fairly and unpartially before him, and that he is given a reasonable account of the present mate at our knowledge. For example, a fairly full statement is given of Mr. Hill's interesting discoveries so to the extent remains of the nucliar Parthement.

The author has, in the main, followed the discription of Pausanus, but has supple mented it by introducing chapters and digressions so as to include what is omitted by Pausanus, and to make historical relations clearer. A notable feature of the book is the very full illustration: the views and other representations are inestly well chosen and intelligible, and are useful both to refreshing the momory of those familiar sign.

Athens, and in helping these who are not to malize the descriptions in the text. There are also several convenient sketch plans, but these hardly units up for the absence of a good general plan of the rown.

Black Glaze Pottery from Rhitsona in Bosotia. By P. N. Unit. University College, Roading, Studies in Hestory and Archaeology Pp. 64 + 16 Plates. Oxford University Press, 1913; 7s. 6sf.

The series of andres published by the University College, Reading, occupied up to the persons with form antiqueties, outers a water field with this its fifth monograph, dealing with that most profific of Bosestian after Bhilteens. The work consists of two parts, of which the first is an attempt to date the various forms of black marthari, many hundreds in mumber; found in eleven graves previously published it it also includes a revised gravecatalogue, in the usual matinifical form, of these races which were not fully propored for publication with the other and more exciting contents of the tonder. These graves were assigned by the excavators in 1908 to the lakes sixth century since then the Gorman expansions of Tryns have proposed an earlier period. It is, however, with the relative, no the absolute dating, that we are here concurred; and, taking as his base the graves for which a place in the chronological series has been for other reasons determined. Prof. Use has drawn up a table showing the proportion of the various alugus found at different periods. Little reliance, as is observed, can be placed on theories of development of shape, and the validity of the results obtained depends entirely on the correctness of the relative arrangement and the integrity of the barial; it is also penible that the statistical evidence may be vitinged by accidental cricumstances in less than a diagna tenths and within a comparatively abort period. Prof. U.v. bowever, has hade a very gallant attempt to arrive as conclusions from very unpromising material.

The second part of the work is a complete publication of fifteen new graves from the same site, but of a smich later parced. Three of these, containing course impainted wary, are assigned to about 200 stee, but the bugynos-shaped flock, No. 10 of Pt. XVIII., is probably later. The other graves are probably of the fourth century steems contains a mass of black pottery with the twisted handles and flored wides papalarly derived from Hellenbeite townsists, also many examples of stamped or impressed discovering. Here, spain, Prof. Cre is almost a pionest, and the solid mass of facts which he has collected will be invaluable to interest underty. The contents of these Boostian graves come at a full person in carando history; red-figure states have game, and the later morphish to see any energy in evidence; but Prof. Cre has gone for to substitute accurate knowledge for the engus generalizations under which the mass of this pottery in our massaums has hitherto been grouped. The imper and plates are both good; the muchod of showing sunkers decoration on the latter is distinctly communication.

Die Ficorinische Cista und Polygnot. An imagenal Dissertation for the Doctorate of the University of Tubingen. By Evans Frank Pp. 77. Tubingen, 1913.

Twenty years ago Carl Robert attempted a reconstruction of two paintings of Puly gnotes, of which more or has complete literary descriptions were available, with the sid of a group of year paintings which may at may not be commercial adaptations of the Polygordan ctyle. Since then a rich literature has arisen in Germany striving to reconstruct on this signaler bases the long vanished fabric of Grock pointing. Much labour and boundless condition have been brought to the pullattic task of drawing suppositions masterpieces of lost artists from abjects of the most varied nature—bow-cases intended for Scyrhian chiefs, or vasor designed for Grock households; but our confidence in the results obtained may possibly be shaken by the discovery that they are not universally accepted by the decree thurstelves.

In 1997 appeared a Decrease dissertation at the University of Tubinger proving that the engravings on the Freezen costs from Pragnesse are copies of such a Polygnotan anaderpiece. Now some a second dissertation from the mane fertile source of Greek art, showing conclusively that they are nothing of the sort and socing in them all the decadem immentations which to the severe eye of Tubingen betray the cloven hoof of the Praxitalesa school. There is abundant evidence of industry and observation in the work. But these alaborate declarations from hypothetical premises, though as popular even mitable Germany, can happly be called scientific archaeology.

Thanatos in Poesie und Kunst der Griechen. An Inaugural Discretation for the Discourse of the University of Munich. By Kuny Herconess. Pp. 80; 11 Plates. Monneh, 1913.

A carofully written little book dealing, as its title implies, with the personifications of Thankton in Gueck literature and are slown in the close of the fifth century n.u. The amount of noternal is somey; undeed, apart from Attic white-ground lokythil which form a dies apart. Themselve only appears to the art of the period on vase paintings of Sheep and Death hearing off Surpodon, and these came groups have also been identified as Moumon carried away by the Wind gods Zophyros and Boress, a view which is rigorously controverted by our author in a lengthy appendix dealing with the various livitances in detail. The bank opens with a review of provious writings on the same subject, after which the literary evidence is methodically examined. The Thanstos of popular traditions, grim and forbidding in Hosist, but often larlesqued, as in Amop, finds its highest expression in the Alcosis of Europaies. By the side of this, however, there appears already in Homes the concept of Death as the brother of Shap, friendly to man and onding human wass, and it is naturally this aspect that is reflected in art. The year paratange of the black and coll-figure periods, if indeed rightly interpreted, show a winged armed beare, generally, though not invariably, bearded to distinguish him from Hypnes, who exclude him to life the body of a doub hero. The Thanaros on white jukythi, boar ever, is universed and has really no preside year arthetic tradition, but is an independent signilistic conception of the late lifely contary. The electer plates expended the owner imperiord scool participation

Die antiken Odyssee-Illustrationen in ührer kunsthistorischen Entwicklung. By Fasse Mirans. Pp. 155; 2 illustrations in the text. Berlin : Weidmannsche Buchlandlung, 1943 M. 6.

This work is an investigation of the evolution in Grook and Roman art of the types and subjects theses from the test of the Ody-ey. Many archaeologists of an older generathen have ransacked the available mass of archaeological material to obtain school illustrations for the Honorae position but the living task of sifting the barvest bus received wint alteration; there is the work of Bulte [D. Monuscintic ad Odyment pertinentiless, Beelin, 1882), but since there amon new material has come to high and the present work awas fittle to its producessor. The mathed adopted by Müller is to take in chronological rusher such appeads as it appears on existing monuments and so trace the breatment through the sucreeding parasis. The subjects chosen by early Great art arthe opinishes of the Cyclops, the Surens and three [it is inverseting that the curflest almeration, the Aristonophon umber, is obviously lessed directly on the text. Warn the famous paintings of Polygnones, the Nekuia, the Slaughter of the Sailters, and the meeting with Nausinea, a wider range of subject to opened to the illustrator; and in the Hellonistic period appear regular arise of piesures or even plantic groups, illustrating methodically the whole work. Under this category come the well-known "Homeric bowls" and the landscoper discovered on the Esquiline. The work, which is based on the author's Insertation of these are preserve and accurate, and doserves to be widely known.

Prodikos von Keos und die Auflinge der Synonymik bei den Griechen. Von Dr. Hermann Mayen. Pp. 159. Paderkern: Ferd Sommingh, 1913 M. 5.

This is the first instalment of a series of Rhetorische Studies, preduced under the direction of Professor Drurup. Dr. Mayor divides his treatise into two parts, the first dualing with Predicus himself so the parent of the are synonymers, the second with younger writers who came or might have come directly under Prodices' influence. It was unlikely that now researches would succoud in adding anything to our immediate knowledge of Produces humself; and to face Dr. Mayer has contented himself under this head with redisposing the material already accessible in other works. And how slight and conditionatory the material by it is practically all contained in a few pages of Plato's Protogorou. (The Heracies of Kenophon is not even a guide, according to Dr. Mayor, to the style of Producus) After summarizing the main features of Prodicus areadment of synonyme, Dr. Mayer goes on in his second part to find reproductions of these features in later writers. The writers chosen for the investigation are (1) Sephnelse. and Euriphies; (2) Herodotus and Thuryfides; (3) the Rhotor-sophists - Thrasymachus, Gorgias, Antiphos ; (4) Andocales, Lyana, Antisthumos, Alciniumas ; (5) Issorates. Tr in in regard shielly to three of this authors that the writer chains positive value for his smults, viz. Thucydides, Antiphon, and Incomes. In them he finds candusive proof of Profiless influence. (He is inclined to identify Antiphon the Sophial with Antiphon the Oracor, but it is the oratorical works in which Predicus inthience is chiefly seen. This is explicable, as he suggests, if the 'Sophies' is the youthful Orstor,) Under such author Dr. Mayer gives the evidence in full, so that the reader can form his own opinion as by its value. The collection of the evidence must have been a labertious task i but it was a useful pace of work. The book makes a close contribution, small though it may her to our knowledge of the origins of Greek chistoric

Katalog der griechischen Vasen im bosnisch-herzegowinischer Landesmuseum zu Sarajevo. By Enstwir Bulanta. Pp. 48, 1 Plate. Separat-Abbrick um Wissensbafdliche Mittedoness aus Ensies und der Herzegowing. XII. Bred. 1912.

Description of a small collection, containing examples of Cypniot, Myconean, geometric, early Attic and Bosotian, Attic bit, and rl pottery, and three fragments of Kalerrian bowls. Among the rf. vascs half of a late little century onlyx-krater with fighting somes, and a carrious rhyton in the form of a silen, with the contest for the triped on the apper part (resterations either in the photograph or in the original). The rough bit ickythos, Fig. 44, was found on the island of Lassa. The bit, was from Rhedes, Fig. 38, is surely not Corinthian but Attic.

Weissgrundige Attische Lekythen Nach Furtwänglers Auseahl bearbailet von Watzes Rieman. 2 vols Pp. 143, to Plates. Munich. Bruckmann, 1914.

The work is in one sense a applement to Brockmann's great publication. Furtwangler-Reichhold-Hanser's Grie Alsels Vaccounteers, which excludes white lekythol although it has published some of the white-ground cups and is to publish others. But the white-ground lekythol occupies a paculiar place among Attle vacca, and may fifly be made the subject of a special memoir: it has its own subjects, its own technique, and its own history: it stands to the wine cup and the water-past as the small quarter of the dead, with its thin, quiet streets, to the load and speciens city of the living

Rienler's book than is not a series of publications, like Furtwangler-Raishhold, but a fluits and solf-contained treatise. It consists of 96 plutes of reproductions, mostly in hellograpure, from photographs taken by the cyclograph, and a separate volume of text, dealing with the technique and heatiny of the white lekythes and containing many minor

dingrations. The largest and most collection of white lekythor is in the Athers museum, and it is from this collection that the greater part of Riezlat's examples are taken but used of the more important lekythor in Berlin are illustrated, busides a good pumber from the Louvre, and some from Munich. The pictures are marrly all excellent: the white lekythors, thanks to its shape and its colour, lends itself better than other vasce to plantographic reproduction, and the invention of the cyclograph makes it possible for the whole picture to be reproduced in one photograph. Curiously enough, the best makes no reformed to the inventor of the instrument, Mr. A. H. Smith, who samely deserved the gratitude of the author; what makes no one that this common is ewing to no overeaght in that the debt was only acknowledged in that this common, the polygical circular which herefold the bank's appearance. The author has wisely refrained from retainfuling his plates, and in the few cases where the original vasc has been tampered with, however slightly, he is causeful to warn the reader. Such a collection of highly quatworthy reproductions is of great value to the study of Great are.

The back does not contain all the linest white lekythet; for a tow of those had already been sufficiently well published, and others were not accessible to the pairor and his colleague the late Dr. Hackl. A good many of the best pieces still remain unpublished for example, the new Hygingon lekythes, and a severe piece with Cherron and Achilles, in Copenhagen, a very extly lekythes with warriers, and a late one, resembling Pl. 92, in St. Petersburg, and several pieces in America, although three of the heat Boshou lekythol appear as text-illustrations. If it had been possible to include these, we could have special a certain number of Randou a places; but so it was not possible, we are thankful to like author for giving as so many masterpieces since be would not give no

thans all

The lekythol with the earlier glaze point technique make better pathers than the later with dull outlines, for the surface is usually listed preserved and the drawing must always have been clearer; but the cumus has done its best, and a good best, with the dull-outline tekythol as well. In two instances, the photographic reproductions are accompanied by coloured drawings from the hand of Gillièrem, the first of those plates in very successful, the second photograph, but less eatesfying, because Gillierem has not contarted to even the coman's himston with that can weak of dull gray which it originally had, and which is needed to believe the powerful test of Hermes schungs. Both these lekythol belong to the earlier paried: It is a pity that the author was mable to carry on his original intention of adding a third colour plate after one of the late lekythol; for or the later lekythol the hase are different, less comple, childish and gay; her pleasing, as Riecher admits, but also less easy to appreciate on the frailer and more damaged originals.

The text, full and well arranged, gives the best account we have of white lokyther in a whola. If does not compute with Farrbanks' valuable trustine, White Athenna Lakyther, for it does not also at emptying a complete and extered hat of all the extant examples but it gives careful consecutive discussions of the general quantum raised by this group of value; there are, and place in the world of are. One of the most difficult and most important tasks of the interpreter is to distinguish the dead from the fiving. Riezler trees—this question at some length and to good purpose. In suggests general rains, but warms against their obind application. A like difficulty is comotines found in discriminating mistress from sevent. Biseler residers that the coeffers are a good test, the woman who has about hard or concess has but beneath a access, is a servery of find it hard to except the first the seated woman, on B.M. D.O. (Wh. A. F. Pl. I) wears such a access, and yet is clearly the matters. It must also be observed that of two somen, the woman who is analytes larged the matters assist a meaning a new meaning a second that of two somen, the woman who is analytes harded the matter meaning a meaning a second of two somes, the woman who is analytes

Interesting are the actions which compare and contract the grave relief and the grave fekythos, and the white fekythos and the red figured view. These extents contain a number of happy observations, but the writer's superness to defend the white lekythos against the charge of being a relatively observation means product has fed him to some

exaggerated expressions. It is true that the nature of the matriment used exercised the strongest influence on the character of red-ligared view painting, and the Jind of influence is described by Riezler uptly and well true, also, that the influence of manuscental painting on these lessor artists was not always wholly beneficial; but Bierler rates has highly the freedom conferred on the painter of white lekyther by his more accorable materiment and his psculiar range of subjects. It is not true to say that the white lakythed show more personality, so that we can assign them with confutence to individual painters, whereas the red figure visces can only be divided into large groups called workshops. No one believes any longer in a severe style dominated by four enppainters; "Kupiaranics, Dours, Hiaron, and Brygos, or a free style symanized over by sither the great, or the fittle Polygnotes. The intractablemus of the instrument or material need not be a bur to the expression of personality; or also a chalk drawing of Michelangulo would show his personality clearer than the Notice; I use there is a sound in which that may be said, and in the same some we can qualify red-figure pointing as Kunstancede, and white lakythus printing as h is Known. But both statements are misleading, for both express but a tiny part of the truth.

The stylistic notes on the several process are sautions and good. I only note that

the Mumch Charon lakythos Pt. 28 seems to be placed too lake.

Risalor calsos the quantion, whether red-ligared vane and white lekythos were produced in the same workshop; he concludes that some of the early small white lekythor were corrainly painted by artists accustomed to work in the other technique; that some of the finer and later glass-paint lakythot probably were; and that the latess groups probably ware not. He proves the association for early small white lekythol by figuring the two raplice wasce in Berlin, one white and the other red-figured. If may be added, that we possess a great number of small lekyther both white and red by this some matter enough to cite the following -white, Athene 1906, 1701 (Benmlor), Gr. . ic. 1% Pl. 23, 2), 1827 (Fairbanks, Pl. 1, 1), South Kensington (Burkington Car. 1904 Pt. 94, II 35) t cod. Athers 1272, 1343, 1192, 1648, 1741, 1273, B.M. E 589, E 582, Again, by a second and later master are the small while lokythin, Athena 1897, 1780; 1897. and the small red figured hikythei, Athens 1522 and 1599, and countless others in Athens and also there. Passens to large lekythol, the splendid late severs white lekythos with Artemis, published by Waldfauer in Johnshoft 16 (1915), 15 2 is the only whiteground was I know from the hand of the Pan magner (J. H.S. 22 pp. 354 ff.) And further, one of the best white-lekythes painters id the free sight the unifor of the musterpiece Rieder Pt 12, is the same who painted some of the finest red figured races of the period.

There are one or two tribing mappings; (wypodos, p. 2). Rhode, pp. 21 and 24; again, p. 35; Lengton for Glaukon Solin des Lengton, p. 58 note 144 (rightly on p. 99); stammer des Polygnet. for amphora, p. 60, Charon for Herman, p. 165, title of picture. On Pl. 20, the "three lekythod" seem to be oinochool on Pl. 14. I do not think the America is wearing greaves (p. 97). The same object is sometimes called Haube, sometimes Sack. With Pl. 17 compare the Martrid lekythes. Leronz, Pl. 34, No. 299.

In an appendix, Rieder discourse the gamminaness of certain helythod in Leadon and in Brussala; part of this scena to have been composed in a hurry, and would have been none the worse for reconsuleration. One does not speak in that tone unless one is sure of bung percetly correct. Rieder is right in condomning D 56 or the British Museum collection and the 'large belythes without number, but the lekythos with the second warrier is quite genulus, seer for some repainting in the faces of the sale figures. The lekythos D 24 is gammine, but was until lately repainted, and in its former state morited Rieder's strictures. On the other hand, in the last London lekythos mannioned by Rieder, the obooks for Charan' is beyond dealet very earshally drawn. but not, I fear, in antiquity.

Brisding and type are worthy of a south which will make an apoch in the attedy of those fascinating relies, and will be a perpetual source of pleasure both to the scholar and to the artist.

J. D. B.

Die Bronzen der Sammlung Loeb. Hermisgegeben von Johanne Soveking. Pp. 88, 46 Platos, und illustrations in text. München, 1913.

This Catalogue makes a companion valume to the Lock Collection of Arriving Pottery (G. H. Chase, New York, 1908), but surpasses even that interious work in the number of photograpus plates and by the addition of wonderfully printed vignotes in the text. There can be no doubt that the private collector of antiquities performs great public service by making his possessions available in more adequate form than the national Massume can afford to do. These Bronzes are at present contained in Mr James Looh's house at Mindsh. They largely minated of choice pieces from the Forman Collection the most imposing of these being the large Eros (Plate 24 - Formus Sals Cut. 90) or the Procedor (Plates 17-18-Formus 81). The rest has been added since that time; and the whole series ranges from two or three Egyptian statuettes to Graceo-Roman subjects of conventional type, with some vaces and other utenails among which two simple Greek suffror cases see completions (Plates 38, 29). The pleasing decorative work of archain style is unusually well represented, but the three European tripoge are reserved for larger reproduction in Brunn-Bruckmann's Deskmaller. Dr. Stovoking's text is precisely what is wanted in a Catalogue short description and sufficient historical and critical comment, with complete photographic Illustration

Bibliographie pratique de la Litterature grecque By Paci Masquesca, Pp. 834 Paris C. Klinskeisck, 1914

A critical tablicgraphy designed to scalar young students by pointing a way through the last increasing masses of literature which illuminate or obscure this subject. By his position as Professor of Greek Laterature in the University of Bordeaux the author is well qualified to understand the needs which his work supplies, and although the book is as much intended for French's bolars that a sort of apology for the inclusion of family editors is inserted in the preface, the result is a medal handbook which deserves side intendation.

Compte Rendu de la XIVe Session du Congres International d'Anthropologie et d'Archéologie Préhistorique. Public pur les soins de W. Dienna Tomes I, II; pp. 694, 527. Genère. Albert Kandig, 1912, 1914.

The limit volume of this Report of the recent Archaeological Congress at Genera begins with a commondably brief account of the procedure, meetings, and excursions of the Congress, with the lim of Delegaces, but is mostly occupied by the text of numerous papers read upon the Palacolithic Age in Europe. Volume II continues European orthogology from the Neolithic to the Iron Age, and includes a few papers upon African, American and Australian subjects, with some purely anthropological essays. The arrangement of so much diverse material does need to the method and industry of the ditor, and the flustrations are plentiful and clear. All the contributions are in French.

The Journal of Egyptian Archaeology. Vot I, Paris 1 and 2. Published by the Egypt Explosions From Lindon 1914. Each 6s.

The Egypt Exploration Fund is to be congratulated on the appearance of the first two numbers of its new quarterly publication, The Journal of Egyption Archaeology, issued in Jamuary and April of this year. A successful future can be predicted for the naw journal, which is intended to eccupy in regard to Egyption studies in this country the same place as that filled by the Journal of Hellenic Studies with regard to Greek. It is directed by a Sub-Committee of control, committing of Mr. F. Li. Greath, the Reader

in Egyptology at Oxford, Dr. Alan Gardiner, Capt. H. G. Lyone, Mr. J. G. Milne, and Mr. H. R. Hall, of the British Museum. The names of the contributors to the first two numbers are equally a guarantee of excellence we find among them, buildes the directors thousalves, Profs; Naville, Sayce, and Petrie, Mr. Hogarth, Prof. A. S. Hant, and Messrs, L. W. King, H. Idris Ball, and M. N. Tod. Prof. Hunt's article on "Papyri and Papyrology" in the April number is really a model of what such an article, designed for the use both of these who know and of those who do not know, should be We understand that especial prominence will slways be given in the new journal to classical connexions with Egypt, to the Gracco-Roman period, and to papyrology, as is fitting in the organ of the assisty that has done so south to resome priceless treasures of classical literature from the sands of Egypt. We expect, too, that Minean-Egyptian connexions will by no mount be ignored and find an article on the subject by Mr. Hall Mr. Tod gives us a hiblingraphy of Greek inscriptions lately found in Egypt. The bibliographies, inherited from the old Architecturical Report of the Fund, which more comes, are a most meful feature.

* .* The following books hive also been received -

The Kengs of Lydia, and a Recoveragement of some Prayments from Northins of Danies is, By Lemin Alexanders. Primeton University Press 1912

La Politique mondraire d'Albanes un Fr Sibele mond notre Ere. By E. Baneson. Rollin. et Konnedent, 1913

Di PAppet verbal en Latin ancien, el perteculibrement dons Terrore. By D. RABBELLENET H. Champion, 1913. 12 b

Die la Physical Erre Elye dons l'Ionien d'Hercelott. By D. BARRIERET. H. Chumpson. 1913. 4 fr.

The Eintern Lebyens By Ohn Barres Macmillan, 1914 49-

A History of Orests to the Douth of Absorades the Breat. By J. B. Buny. Manmillan, 1013. 8s. fist.

Intermediate Types coming Princitor Poll. By Enwante Caure view. George Allen, 1914 to the

The Primities Test of the thought med data. By A. C. Chank. Clarendon Press, 1914. 4s. Le Consul John Chartel at an Relation de l'Aftique au XVIP Sinte. By M. Connesson. L. Klincksieck, 1915, 2 fr. 60

The Origin of Attic Councils. By F. M. Conversity. Armild, 1914. Rt. &L.

the Velermon Mesourismon. By G. L. Dinnemay. Topchmann, 1914. M. 2, 50.

Ein atheniaties Greet, where the elementische Aparche. By A. EUTER. Marcos and Wolner, 1914.

Lie Musicres of Eleman By P. Forecast. Picard, 1914. 194r.

Rossin Lagrandian, By Transay Frank Marmillan, 1914, 10s. 6d.
Admir, Affin, Onicis. Vola L. H. By J. G. Franker, Macmillan, 1914, 20s. net lucli. The Principles of Greek Art. By PERCY GARONER Macmillan, 1914 10.

Melanges Holloms, Picard 1943 15 fr. Nemerica von Emeri. By W. W. Januar. Wendmann, 1914. M. 3.

De Caronarum apied Julipou V. alper Chir. By J. Kocuntsa. Topalmum, 1914. M. 3, 40.

1) or upmer Responsation for the item bes Bouch glate and Product By P. Mass. Windmann, 1914 80 17.

The House Dime on the Assisted Stone By W. W. Mouses. Williams and Wilkins, 1914.

Archinology of the the Testament, Was the Old Testament Weitlen in Hebrent?

By E. Navitze. Robert Scott, 1913. 5s.

Recherches no b Truit d'Ine et d'Onvis de Plubiopes. By L. Pannerren. Lamertin, THERE

Ass Plates Westerstr. By M. Potrez. Wynimann, 1913. M 10.

HX-YOL XXXIV

Essays and Studies Pressuled to William Ridgeorus. Edited by E. C. Quanties. Cambridge University Press, 1913.

Cabalogue des Antiquites loggetiennes de Keptine. By A. REINACH. Bertrand, 1913.

Not Samperion: Etale on to Deliver on Physics at to Some from pull-phygien-By A. REINACH. Duringher, 1913.

Inswell Engeness. By A. G. ROPER. Blackwell, 1913. 2s. 6d.

The Composition of the Hind: By Austra Sarrit. Longmans, 1914. 66.

Ueber die rengrischische fineure Schrift und Krein. By J. Sunuwatt. Holsingfore. 1914.

Positions in Olympia. By A. Teknorteneuro, Weidmann, 1914. M. 3.

The Acharanna of Aranghanca, with an English Translation; By R. Y. Tyranzu, Charmadon: Press, 1914. It not

Les Engernats de la Rible hébouique un tirce et de Lutin. By M. VERNER. Levoux, 1914, 7 fc, 60

The Helitaness Osychigaeniu: Its Authorship and Anthority. By E. M. Weeken. Clarumbon Press, 1913. in met.

An den griechischem Schildensen Enderme von Milst und Vermentlen. By E. Zernente. Tenimer, 1914. M.5

CORRIGENDUM: (Von. axxin. p. 142)

PRILEOUSY Citation der van poer digital delle Necropoli Februar. The reviewer wishes to apologise for the following misprints or mistakes: 273 and 274 should be read instead of 263 and 294 cand 436 material of 445.

A538

THE MASTER OF THE ACHILLES AMPHORA IN THE VATICAN.

(PLATES XIIL-XVI.)

The two vases reproduced on Pi. 13 and Pi. 14.2 are the earliest redfigured lekythor on which a grave-stelle is represented. Shape and patterns
and composition are the same in both; and if we compare the drawing of legs,
arms, heads, and feet in the two vases, we shall find the closest resumblances.
Now put the legs of the youth on a third lekythos (Fig. 2) beside the male
legs on the two stell-vases; and the woman on Pl. 13 beside the standing
women on a fourth lekythos. Pl. 14.1, and a fifth, Fig. 3. Then let us turn
to the Nolan amphora on p. 183, Fig. 4; surely the youth on A is strangely
like the two youths and the man on our lekythoi; and now look at the figure
on the reverse of the vase (Fig. 5(1)): have we not seen that himation before t
and where if not in Pl. 14.1 and Fig. 3? But no fewer than fifteen such
himatic are collected in Fig. 5; each of the fifteen figures who wear them
is the manufo-figure drawn on the back of a vase. Would it not be
interesting to know what the figures on the front of these vases were like?

But at this point some reader may cry: of course these himation figures are as like one another as, short of repetition, fifteen figures could be but they are mantle figures, and all mantle figures are very much the same: I never look at mantle figures. In answer to this objection, once I have referred the objector to the story of Peter's sheet, I am at a loss; for although I can collect on two pages fifteen mantle figures which are like one another, I cannot collect on two others all mantle figures which are unlike these fifteen: I can only bid the critic go and look at a roomfol of red-figured vases. If he finds any other vases with the same figure on the back I shall be glad to hear of it; for if I turn to the front I shall find that legs, feet, hands, face clothes are drawn in the same way as on the vases already mantioned, and on the other vases in the list I shall presently submit.

Paris, Munich, London, Atlants, Dessten and Petrograd. The discolings Pil. 16-16 are by Mr. F. Lamkost; Pl. 14 by Mr. E. Gillièron; Pigs. 4 and 5 by Mr. Terri; Figs. 15, and 5 m by Prof. Reinhfield i Figs. 8, 13 and 23 by Mr. Rasselo Carta.

^{*}I wish to express my thanks to Mr. L. D. Cashey, Dr. F. C. Conybears, Prof. J. De Mot, Mr. D. C. Hogerth, Dr. Kester, Dr. Orsi, Mr. J. Petlor, Dr. Savoking, Mr. A. H. Smith, Dr. Schie, Dr. Tron, and Dr. Waldhamer, for their kindness in allowing me to publish vess in Boston, Grussele Oxford, Berlin, Syracure, 199

To take two examples: No. q in Fig. 5 comes from the back of a Nolan amphore in Boston: let us look at the front of the vase, shown in Fig. 7, and compare the drawing of logs and feet with that on Fig. 2: or pass to Fig. 8, which is the other picture on the pelike from which No. s.



FIG. L.-AMPRICIA ON THE VALUE AND

on Fig 5 is taken; and observe the foot of Nike and the left log of the warrior. Now look at another Nike and warrior seems on a large lekythos

(Fig. 9); is it only by chance that the warrior here is at like the warrior

on the polike?

This lekythes points us to a still larger vase, the stammes figured on Pil 15-16; here are two warriors, very brothers of the warriors on the lekythos and the pelike. The well-known Euphorbos vase in Paris (Fig. 10) is more elaborate and the inner markings on A are all in black instead of being partly in black, partly in brown; but the lines on the legs are of the type we have already noticed, and the face is the same face, seen at its best, as appears in smaller vases like Pi 14.1. If we turn this vase round (Fig. 6), we



PAR. E. LEETTHIN IN DE. P. C. CONTRACE'S POSSESSION AT OXFORD.

find a mantle figure which; though larger, differs very fittle from the mantle figures we have already seen. Finally, the most caroful work of all the Achilles amphora in the Vatican (Fig. 1). I am anable at present to eite a good reproduction of this vase, for it has never been properly published; if it had been signed by a painter or a potter, if it had presented a curious myth, it would long ago have received adisquate or tolerable treatment; but it is only a beautiful case, decorated by a nameless artist. Happily, before

very long we shall have a good reproduction of the Armilles amphora, for it has been drawn by Reichhold and is to be published presently in the German book.²



Vig. 2-LEETTHOU IN STRACTURE

Lot us notice here the knows, the feet the clothes the ears, the

³ Dr. Hanne kindly told me that the bereproduced on one plate is a future much. Athill-samples and the Emphasis are will of FRII.

MASTER OF THE ACHILLES AMPHORA IN THE VATICAN 183

eyes, and compare the whole wase with the Euphorhos wase, and with the other vases already indicated: I think it will seem likely that they are all by one band. I wish to call the painter 'the master of the Achilles



Fig. 1.—Nolas Americaa'is the Buston Museum, E 229 (4).

amphora, or for short, 'the Achilles master.' I shall propose a list of this painter's works, and after that mention some features which are common to them and as a whole distinguish them from other works of the early free period.





Fig: 5:- Revense Frances (amtinued).

I. Amphora.

 Vatican. A, Fig. 1=phot. Moscioni 8573; Mus. Grey. 2, Pl. 58, 3; Gerhard, A. F. Pl. 184 (miserable reproductions). A. Achilles, B. Woman with oinochoe and phiale. On A, AXIAAEVE.

There are two main classes of rf. amphora," distinguished by the shape of handles and foot. The first class has that handles with flanges, the edges of the flanges being decorated with bf 'ivy pattern; and a foot of two degrees resting on a cushion (e.g. FRH: 2, p. 282, and 3, p. 73; J.H.S. 31, p. 276). The second class has the same handles and foot as the 'amphorae of Panathenaic shape, that is, black cylindrical handles and a simple spreading not without cushion. Both forms of amphora are used by bf. potters, but in rf. pottery it may be said that as a rule the first class is the earlier, the second the later. Our amphora belongs to the second class and is one of the few free-style amphorus, for this shape, common in the early and

shown, or with the foot and handles described: above.

^{*} By the word 'amphora" unqualified I mean the shape Furtw. Cat. Pl. 4, No. 35, either with such foot and hamilies as are there

developed severe periods, gets rarer as the century advances, and long before

the century passes disappears.

The decoration of our amphora consists of a single figure, standing on a band of pattern, at each side of the vase, and a row of tongues round the base of the handles. The amphorae of the earlier severe period, and many of the later amphorae, have frames of pattern all round the pictures; but we possess a good number which have either a band of pattern both above and below the picture, or, like our amphora, a band of pattern below the picture only. Ours is the only amphora which has no more than a single figure on each side. The drawing on A is wonderfully careful and fine, on B careful but less elaborate.

If we look at the pattern on A in Mossium's photograph we see that it is composed of stopped macanders, each of five pieces, grouped in pairs



Fig. 6.— Saur-empines with Twisten Harrings in the Camput has Madialized, 372 (B)

with saltire squares in such a way that the groups of macander face alternately left and right, and the saltire squares touch alternately the upper and lower boundary lines of the border. On B the pattern is the same, except that cross-squares of an uncommon kind, like Dourian cross-squares but with dots added between the branches of the cross, are substituted for the ordinary dotted saltire-squares used on A.

These two alternations, groups of musander facing alternately left and right, and pattern-squares depending alternately from the upper and the lower of the horizontal lines bounding the pattern, are the rule in our master's. masander and patterns puare ornament, and I therefore leg permission to use the symbol a as an abbreviation for the longer expression groups of mucander facing alternately left and right with pattern squares depending alternately from top and bottom': I shall add in each case the number of macanders in each group and specify the kind of pattern-square: the pattern on A of our amphora will then be '5 2's saltiresquares,

The youth on A has the name Achilleus written against him, and I cannot agree with Reimch in regarding him as a nameless and typical

^{*} E.g. both above and below, the Reilin amphora 2160 (J.H.S. 31, PH. 19-10); below only, FRH. PH. 113 and 104.

figure transformed into Achilles by a fancy of the artist. Remach means, I take it, that the artist first drew a youth in armour, and when he had drawn him thought be would make him more interesting by putting a name to him; but suppose the artist had meant from the beginning to draw a picture of Achilles, how would the picture when finished have differed from the picture before us? How should the artist characterize Achilles but by pride and beauty? Let us take our artist's word that the young man he drew is Achilles; and if we take into account the writing on the vase which Oltos painted many years earlier, we shall think it likely, though by no means certain, that the lady is Briseis.



Fig. 7. - Notice America 25 Borrow (al).

Il Neck-Amphora with Twisted Handles.

2 Cabinet des Médailles 372. Figs. 10 and 6. Mon. 2, Pl. 14: W.V. 1889, Pl. 8-9: phot. A. Giraudon. A. Euphorhos carrying the infant Oidipous. B. Man with stick. On A. EV∳OPBO≤ and OI∆IPO∆A≤.

Mouth and foot in two degrees, as is usual on neck-amphoras with twisted handles (shape. Furtw. Git. Pt. 4, No. 37). The body of the vase is slimmer and the neck thinner than in severe neck-amphorae with twisted handles (e.g., J.H.N. 31, p. 281); the more elegant proportions are regular in the free style examples. Mouth, neck, and foot are covered with black, and the upper edge of the mouth is also black. The decoration consists of a

Rainach, Jöpertotre 2, p. 91, 'il s'agit probablement d'une soine de départ, où l'uneription Axeance est une fentales du

^{*} E.M. E. 258 (Centard, J. P. P), 187).

single figure (for the group on A must count as such) on either side of the vase, with a band of pattern below it, and a single palmette at each handle. The drawing on A is excellently fine, on B careful but simple. A great many other neck-amphorae with twisted handles have only a single figure on each side, but the latest of these is the Würzburg vase with Poseidon (Gerhard, A, V, Pl. 11, 1): all the free style examples, except ours, have two figures or more. The pattern below A is δ 3's with Dourian cross-squares: below B, δ 3's with saltire-squares. The outline of the hair on B is



Fro. So. -PARTER OR THE BELLINE MUNREM, E 885 (A)

not incised (de Ridder, Cat. p. 272) but reserved. The scene on A is unique.

III. Pointed Amphora.

Cabinet des Médailles 357. Mons. Piot 7, Ph. 2-3 and pp. 14-15;
 FRH. Pl. 77, 1 (detail = our Fig. 11) and p. 92; phot. Giraudon. Dionyses.
 Magnads and Silens.

On the mouth, egg-and-dot like that on the B.M. stamnos, Fig. 24 : on the shoulder, rf. palicette motive; handles twisted, at the base of them

egg-and-dot. Above the picture, egg-and-dot; below it, & 2's with saltire-squares (wrong in the pictures). Most of the numerous restorations are indicated in the French drawing, but it must be added that the face of Dionyses and the top of his head are also repainted.

Not more than half a dozen Attie of, vases of this shape have been preserved: and one of these, the magnificent Kleophrades vase in Munich; has the same subject as ours. Dionysos in the midst of his silens and machads. Kleophrades' vase is the earlier by a good fifty years; let us move aside for a moment to compare it with the Achilles master's. The first has the eager strength of the early, the second the calm power of the mid fifth century. The



Fig. 86.—Pros Printer (v rice Barrian Museum, E 365 (A)

first has two memorable figures, the rushing machad who chatches her thyrsos, that with passion, and the other, the blond and blue-wed, who is rapt into some solemn heaven: the second, no less memorable, but far different, a group of two friends, one slighter and weaker in body, a little tired, but determined, the other, great, strong, and loving. I do not know of any group quite like

⁽¹⁾ Manich 2334: FR. FR. 44-45: by Kleephrades (= J.M.S. 30, p. 43). (2) B.M. E 350: E.M. Cw. 3, FR. 13 and 18, 1. (3) Brassels: No.1 de Vergers, F. Etcar + Fl. 22-56. (4) Munich 2345: FR. Ell 94-95, (5) replica of the last, Berlin 2165: Carnani, Etc. v. Kamp, Fr. Fil 26-29. No. (1) is sourwhat

earlier than the rest, which all belong to the same few years; then summe a gap, and then our Paris wase.

^{*} I think the dot and circle eye is meant, if not always, at any tale often, to indicate a light-coloured eye.

this on Attic vases: in feeling it recalls the male group on the Berlin Orpheus krater: but formally, it stands alone. Did the vase painter invent it or did he take it from some monumental work by a great artist? I fancy he did not invent it. And are not Kadmos and Teiresias, in Euripides'



FIR &-LERVING IN THE LOUVER, II MA.

best play, setting out, arm in arm, dressed in women's clothes, to do Dionysis honour, a hideous parody of such a pictorial group?

10, Pl. 5: Atthe bit, supphers in Madrid, Lerenz, Cat. Pl. 10: Atthe if, supphers by Phinitias FR. Pl. 91, amphors by 'the master of the Trailes hydres' (d. H.s. 32, p. 371; Gerhani A.F. Pl. 120)); nor in the later Drenyman groups (d.g. Mon. 10, Pl. 3); nor yet in the free style groups of small Scien and drunken Dionyson or Hephnistos (peliks to Minich FR. Pl. 29: sinochoni in Athens E.C. H. 1890, p. 38).

Furtwingler, Redding Windschmungungenma 1890 (= FRH. 3, p. 100; Buscher, et. Farmunders, p. 188); see the communichy furtwingler, loc. off. and Hanser (FRH. 3, pp. 108-109.)

We do not find the same feeling or the same composition either in the article early groups of two persons moving to the same direction with their arms found each other's names (e.g. Ionia amplions in Warroung, J. H. S.

One of the two silens on the Paris wase is almost entirely destroyed, but enough is left of him to show that he was behaving quite well; as for the silen who remains he might be a priest, or at least a very grave acolyte, who feels he is playing an important, perhaps the most important part in a selemn rite; but the silens of Kleophrades are huge half-wits, or wild beasts the night is filled with heat, fury, and shooting; and the musician blows to crack his cheeks.

IV. Pellicai.

Not large: Handles ridged, with a palmette, petals downwards, at their bases. Side of foot black. On A, two figures, on B one. Above and below B, a band of key pattern: above and below A, a band of δ with saltire-



FIG. 10.—NEOR-AMORGE, WITH TWISTED HANDLES IN THE CLEINET DES MEDALLES (372).

squares, on 5 in 2s, on 4 in 3's. This pair of pelikal belongs to a small group of pelikal by different hands; the other members are rather later than our pair. The pelike in Deepdene (El. Cér. 1, Pl. 94), with Nike setting up a trophy, has exactly the same handles, palmette, and patterns as the Berlin pelike, but the drawing cannot be said to show trace of our master's influence.

H e.g. Deepdane, El Eco. 1, Pl. 94: H. M. E. 415: H.M. H 292: R.M. E 394, Munich 2202, Bartin 2334, A.Z. 1870, Pl. 11: Densien,

Equatgowerbamuseum (.d. Silon and Macmal.: A. youth)

- Berlin 2355. Fig. 12: Overbeck, Gall, Lev. Bildie 2, 1. A. Oidipous and the Sphinx. B. Man with spear.
- 5. B.M. E 385. Figs. 8 and 5c. A. Nike and young warrior. B. Man with stick.



Fig. C. - Pany Printed Authors on the Camber des Mediaters, 257 :

V. Nolan Amphorae.

Handles: 5 his, 6, 7, triple handles: 8-20, ridged handles.

Foot: the edge reserved in 10, 13, 14, 16, 17, 18 bis, 20; black in the rest.

Patterns:

Below A=5 his, 6 and 0-20, 8 3's saltire-squares, 7 8, 8 2's saltire-squares; 7, stopt macander in 2's with Dourian cross-squares

Below B; key, all except 7, which has the same pattern below B as

below A but more irregular and even rougher.

The patterns on 15; and on B of 20, are not known to me.

No palmetres at the handles.



For. 124 -Paring 15 Berlin, 2855 (At.

The scheme of ornamentation, on A, δ , on B, key, is found on a good number of Nolan amphorne of later style than our master's, no doubt owing to his example. Before his time, δ is not found on Nolan amphorae except on works by the Berlin master and his school, and by Hermonax who was a pupil of the Berlin master

²⁴ On 10, the 5 principle is not extrict out. The best of these vacus are Nos. 5 thr and 8 c many of those are basty and poor.

(A) With triple handles:

Sil.	Petrograf 1556. Stephani	Figs 23 and far (a)	Norwill riding our deliphin	Youth with atlak
2	Deydon 18 h 11 Berlin 2332	in the to	Young varior running	Youth with stick Man with stick KAAOE

No. 7 is the only vase with the love name Alkajos "

(B) With ridged handles.

-8	B. Mr. E 329	Figs. 1 and 57	Youth and woman with	Man with wrote
P	Parin, Peter Palais 825	+	Diserbolus and trainer	Youth with origit's
10 11 32	Syramus Municip 2329 Baston int. 06, 2147		Nike and youth Youth giving lyre to key Ordipour and sphinx	Man with stick Man with stick Youth with stick
18 14 15	B.M. E 320 Ouce coll. Paravey	p. 389. Figs. 7 and 59 Figs. 10 and 56 Figs. 17 (part) and 50 El. Cer. 3. Pt. XX =	Ess and Kephales Ess and Kephales Zeus puraning woman	Man with stick Man with stick Mon with stick
16 17 18	Dresdan 203 Berlin 2340 Berlin 2347	Figs. 18 and 5g (4) Fig. 10 (B) Fig. 24 Jahn, Englikerung ster	Zeus junwaing woman Peleus and Thrtis Europa	Man with stick Man with stick Man with stick
15	Petrograd 710 (1888 St.) Dresden #15	Bouly, Fig. 15 (from Jaho), Figs. 18 and 5/	Youth and boy with	Youth
120	Once in Paris mas- ket	(A) Fig. 5p. (A) Gat. Cell. Dr. R. et M. Chemann) 19-21 mass 1910, Pl. XX. No. 171.	Youth with spears and old man Ohlipous and splins.	Weman with takels. Figure drapse

A group of five Nolan amphorae with triple handles are by an imitator of our master.

70. Vicam Hofmuseum 499. Laborde, Vases de Lumberg 2, Ph. 33 and 32, 3. A. Eos and Kephalos. B. Youth.

7a bis. Petrograd 703 (1534 St.). A. Woman running. B. Youth.

7h. Cab. Mod. 363. Laynes, Pl. 23; El. Cor. 3, Pl. 7. A. Poseidon running. B. Vouth. On A. KAAGE MEAHTOE. The only occurrence of this love-manue.

and E-76 (Hartwig motel, Ph. 42, 2 and 43, and FR. 41 and 42, 1) I two neck supplements ridged families, B.M. E-319 and Baston Inc. 51,8028; and the sup Learne G-255.

It is true that Alkinos has been read on a Noise amphore with Zerr and Congruence on the collection of Mr. Ricketts and Mr. Shannes (Gat. Burington (Two 1904, Pl. 93, p. 103) lint the inerripless on that true reads not ALKAIOS but LVIOS KALOS: It is the work of an anonymous menter belonging to the detalogical server period, who for some person frequency writes LVIOS as his cases among his other works are the two superfit. M. K. 75

is a L. Liskobules standing r, some extended with diskan; I man standing right log frontal, head L. L arm errapped in himsthem, in r, hand apright would (the promps torthestend). E. youth standing L. himstlen, r arm extended balthing stripil.

7c. Berlin. A. Ees and Kephales. B. Youth. On A. KAENIAE KAADE. Formerly in the Bourguignen collection: Klein, liebl. p. 163, No. 2.

7d. B.M. E 300. Klein, liebl. p. 164. A. Youth riding. B. Woman. On A. KAENIAE KAADC. Klein's No. 4.

A fine lekythos (our No. 22) from the master's own hand also bears the name of Kleinias. Klein mentions two other Nolan amphorae which I have

not seen. Naples 3125, his No. 1, and his No. 3, seen by Heydemann in Rome, and reported to be of the same size and style as the Berlin Kleinias vase.

7a has the patterns which are regular on the Achilles-master's Nohn amphora: below A, δ 3's saltire-squares; below B, key: 7a bis the same patterns, but the δ in 2's. The key is also used on B of 7b: on A of 7b, and on both sides of 7c and 7d, a running macander.

The following Nolan amphorae with ridged handles stand very close to the master, but are not I think from his own hand. Patterns: 20a below both A and B, 5 2's Dourian cross-squares: 20 b, below A, 5 3's salting-squares; below B, key. 20 a has a double palmette at each handle.

20a. Girgenti, Baron Giudice.

A. Zeus pursuing woman. B. Man with stick. A. I. Zeus running r., in r. scuptre, I arm extended.

2. Woman running r. regardant, left hand raised. B. Man standing l., himation, in r. stick.

206 Copenhagen, A. Zens pursuing woman, B. Man with



Fig. 322 -- Prince is Bennis, 2358 (B).

stick. A. I. Woman running L regardant: 2. Zeus running L, in r. thunderbolt, in I. sceptre across shoulder. B. Man standing v., § back view, himation, in r. stick.

VI. Lekythoi.

Elegant shape, black neck, and nick on the side of the foot. Shoulder bf, with egg-pattern and three carefully drawn palmettes; with the excep-

tion of 22, which has rf palmettes, and 21, which has a second scene on the shoulder. Patterns: above the picture: δ 2's saltire squares, 21, 27: δ 3's saltire squares, 29, 30, 32, 33: δ 3's with a modification of the Dourian cross-square (the black corners voided), 28: δ 3's saltire-squares from top and Dourian cross-squares from bottom, 22: dense stopt macander 3's with saltire-squares from bottom, 24, 25, 20: stopt key, 23,

Below the picture: key 24, 25, 26, 27, 28, 29, 30, 31, 32; & 2's Dourian cross-squares, 21; & 4's Dourian cross-squares, 22; clamp pattern, 33; hook pattern, 23.



Fig. 13.—Noilly Assures in Patrockan, 716 (4).

21. Louvre G 444. Fig. 9. Nike moving towards warrier. On the shoulder, a second picture; the upper parts of the figures on the shoulder, together with neck and mouth of the vase, are lest—1. Male moving r, with stick; behind him, a chair: 2. Woman moving r, r, leg frontal, in r, hand oinochoe; on the ground, a bird: 3 legs of nate, standing L, L knee bent, with stick; on r, n woolbasket; 4. Woman standing L

This is one of the largest and finest rt lekythol we possess. It is distinguished from the great majority of lakythol not only by its size but by

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the secondary pictures; in besides these, a few lekyther have the picture on the



Pm 14.—Nolay Amenora in Syracusa (a).

shoulder only, the body being laft black except for a band or two of pattern. We note of these thirteen lekythol have more than two figures on the shoulder.

1880, Pl 11 and Richer Pl 1: Les between palmettes. The rest red-figured. (2) Athens, Acroyalia, fragment: lion and boar. (3) Religion Polagi Univ. B21, Pallegrini, Cod. Phys. 43-45: bon between palmettes. (4) Athens 1826, Collignon Course, Pl. 46, algorid for Mys. 1870. Nikal (and a third Nike on the such), (b) Symmus, non-fine, 17, 17, 15, 2, by a follower of the Burlin masters. Pages and between

palmettes (d) Cab. Mod. 488, phot. Girmodon, by Hormonux: woman running between flowers this is the only lekythes where the agare on the aboutler is related to the figure on the body, the woman is Zena's love. (7) Symens 19880 (first style): Pagarabetween palmettes. (8) A lekython in Naples (Heydemann 3184), which I have not seen; it is nesitioned by Rimber, p. 89, and 1; Nike.

22. Syracuse. Fig. 20. Mon. Line. 17, Pl. 8. Artemis, and a woman univing her girdle. KAENIAS KAAOS PHAJOC. 17



Fig. 15.—Notice Authors by Mysical, 2829 (4).

23. Athens 12480. Pt. 14. I. Phot. Alimri 206. Woman bringing a bird (dove !) to a woman sitting on a rock.

on the choulder only, [1] Munich 2475 (severa); him. The rest free style. [2] R.M. inv 1910, 4-30, 1: youth and woman with alabatron, [3] Syracus; r woman with phiale and youth with specie. [4] R.M. inv. 1904 4-4.]: Erre. [5] R.M. inv. 1909, 4-6, 8; woman.

"The lava-mone Kleinias is found on five other rams (Klein hold, pp. 102-164); four

of these are dualt with m p. 195, Klain's No. 5 belongs to the same period but has an numerous with our mount. If the Klainias on the Oxford vass is, as some fixely, the same as the Klainias on the Syracuss case, he cannot be, as has been engageded, the father of the great Aikibiahas; for the father of that Khames ass an Aikibiahas, not a Pedicus.

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24. Brussels A 1378. Pl. 13. Poor photograph, cut. vente Somete. Pl. 7. No. 49. Vouth and woman at stele.

A list of rf. lekythoi with grave-scenes has been drawn up by McMahon.18

25 Athens 1639, Pl 14. 2 Man and woman at stele,

 Oxford 324. Fig. 21. J.H.S. 1891. Pl. 13. p. 317: Gardner, Ashmolean vases, p. 33. Aphrodite riding on a swan.



Fig. 16.—Notas Amphora is the Berting Meseum, E 321 (A).

27. Oxford. Dr. F. C. Conybears: lent by him to the Ashmolean Mussum. Figs 2 and 22. Youth shaking hands with woman."

10 Aug. J. M. 10, p. 411. McMabou divides them into these groups | (1) a group centring mund and deriving from our No. 23: 1th a group of three [iii] a later group of five.] agree with his grouping in the main and would rearrange the cases in the following order and with some achitisms: (i) our four lekythoi 24, 25, 32, 23, by the Achilles mentar; our No. 33 a, school of the Achilles master, or by himself; our Nos. 537, 339, 334, 331, imibetions of the Achilles master | Athens 1837. a later example, showing the influence of our master in the shape of the rues and the type of the palmettes, but hardly in the drawing (ii) McMahon's second group : Albert 1038. 1295 and 1259; all by a single ungitted hand; lift three vescs by a single hand : Athers 12804 and two in the Leaves swmmm with texy and youth with spear at stele, perhaps identical with McMaham's 'Orester and Electre below thos; and naked youth with disks and youth in himation); (iv) two small lekythes by a single band, therlin 2420 (Furranagler, Samuel, Satorony, text to pl. 15), and Berlin 2427. I have not seen the lekythos 'in the Paris market' mentioned by McMaham.

From Gela, bought in Palerma. Both farm here unforced: the und of the youth's near is gone, and part of the consun's eye: the unforce of the youth's chart is rubbed, so that the alppie may have been indicated, although an trace of it rumains; small pieces of the woman's bimation are missing, in the overfull and in the fulds to the right of the left log.

28 Boston, inv. 01.8077. Zens pursuing woman. 1. Zens moving r. in r. horizontal sceptre, L arm extended: 2. Woman moving r. looking back, thin chiten with kelpes, short himation.

- 29. Syramuse Fig. 3. Two women.
- 30. Syracuse 19894, Fig. 23. Nike and youth.
- 31. Syracuse 21133. Mon. Line. 17, p. 397. Young warrior pursuing woman.
 - 32. Athens 1293: Youth riding to grave stele.
- Athens 12123. Am. J. A. 10 (1906) Pl. 17, and pp. 410-411.
 Youth leading horse to stelle.



Fig. 17.—From Notae Aurumna in the Beitran Museum, E 820 (12).

Lekythol, School-pieces and Imitations.

33c. Once in the Munich market. Katalog ... einer ... Samulang griechischer Vasen ... München, Helbing, I.-.: Mai, 1899, No. 69. 1. Man leaning on stick, with "Mantel and Reiselant." Stele, bound with white and red taimar, a shield leaning against it. 2. Man standing L. in r. hand stick. Height 50. Above, \$3s saltire-squares . below, key. I could not be certain from the photograph whether this large lekythes was by the master himself or by an imitator.

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33b. Symouse. Mon. Line. 17, p. 366. Woman running (type of Thetis: Oroithyin; etc.).

33c. Athens 1294. Woman running (same type). Above, 83's saltiresquares; below & 2's saltire squares.

33d. Copenhagen. Woman running (same type). Above, stopt macander 3's, groups facing alternately r. and L, with one saltire-square and one chequer-square, both from the top: below, key.

33c. Syracuse. Nike. Flying I., head to r, bent, hands as if holding tainia Doric peplos with apoptygma; on I. a low altar. Above, stopt macander 2's sultire-squares from top and bottom; below, ker.



Fin 18.—NOLAS AMPROLA FORMERLY IN THE PARAVEY COLLECTION, (A): after El. Cre. 3, Ph. 20,

33/ Athens 1640. Eph. Arch 1803, Pl. 3. Youth with helmet and wamma landing fillet about stele.

33g. Boston R. 446. Robinson Col., Pl. p. 162. Woman with smegmatotheke and youth with spear at stele.

33h. Boston B. 445. Youth and woman at stele 32

33. Athens 12134. Woman with tray and youth with tainia at stele.

The routh earthy a huge arrow, point downwants, as a staff; for such arrow of the equipment the Schwerin Platoxenos ketyle (Klain, Link p. 155, No. 5).

⁽Vakrouck 27, Pl. 8), and the Clankon dimethos in the Thorvanier Massum at Copenhagen

VII. Squat lekythos (shape Furtie, Cat. Pt. 6, No. 240).

34. Deepdene. Woman and warrior. I. Woman standing r. Dorie peplos overgirt, r. arm extended from albow with phiale, b. down at side with oinochoe, behind her seat with cushion: 2. Warrior standing with r. leg frontal, head l., on l. arm shield, in l. hand spear, r. arm bent at elbow, short ornamented chiton, Thracian helmet. The mouth of the vase lost; handle convex. Above the picture, egg-pattern; below it, stopt macander in 2's with saltire-squares from bottom. This beautiful little vase, which is to be



FOR 19. - NOVAN ANTHORA IS DESSER, 209 (4)

compared with our nos 5, 21 and 35, will be published by Tillyard in his catalogue of the collection at Deeplene.

VIII, Stamnos.

35. B.M. E 448. Pls. 15-16, and Fig. 24. A. Departure of warrior. B. Departure of young warrior.

Detacked lip: on the mouth, claborate egg-and-dot; neck short: foot sample disc, side reserved, on cushion: handles round, recurving: patterns and palmettes, see Fig. 24.

IX. Calyx-kraters.

36. Boston inv. 03.817. Figs. 25 and 5o. A. Zeus pursuing woman. B. Man with stick.

Small. Above, laurel. Below A, δ 2's Dourian cross-squares; below B, stopt key.

36 his. Petrograd 767 (1535 St.). Part of B, Fig. 5k. A. Poseidon and Amymone. B. woman running to man.

Small. Above, a leaf-pattern, below A, stopt macander in 2's with Dourian cross-squares from the bottom only, below B, key.



Pin. 22 -Liverimos in Sthauver; Mon Long 17, Pl 8.

Three other small calyx-kraters stand extremely close to the Achilles master.

36a. Bologna 208. Pellegrini, Cat. V. delle Necrop. Felsince, p. 140.

Two rows; " upper row: A. Circe; B. Man with sword pursuing woman: lower row; A. Woman running between youths: B. Women and vonths.

of A list of callyz kraters with two sews is given by Harrwog. Essen. Mid. 12, p. 102.

Above pictures, alauting palmettes: between, reserved line: below, stopped macander.

Above 36b, laurel , 36c laurel with balls : below B in both, key ; below A, 36b, & 2's with saltire-squares, 36c, same 3's.

36b. Athens 1717. A. Athena and Nike, B. Man and woman.

36c. B.M. E 463. d'Hancarville 1, PH, 33-35. A Eos and Kephalos, B. Woman,



Fin. 21 - Leavine as Cravers, 324.

The key-pattern is only found once on severe calvx-kraters, namely, on the Corneto krater by Kleophrades (Hartwig, Meist pp. 416-417); but it also occurs on the reverse in seven small calvx-kraters of free style. The 5 principle is rare on kalvx-kraters.

The key-pattern is confined as the servers of the edge brater: I had oversooked the reverse whom I write in J.M.N. 10, p. 47 that with the exception of the Corners was the key-pattern was not lead on edge.kraters

²⁴ It is found on the following callys-braters: Syramics 1.4. Silen and Discress: R. Maranil, by the Harkin master (to be added to my list). Oxford 291 (select) of the Barlin emaster). Girgenti, Mus. Civico, 10; Laures, U 480.

Bell-kraters.

No bell-kraters can be certainly assigned to the Achilles master; I think it quite conceivable that the following vase is an early piece from his hand, but I prefer to regard it as an imitation. It is a queer bit of work; one of

the heads has been twice reproduced because of its portrait-like realism; the other head on the same side is lost, and I shall not be surprised if it turns out to have been kept by the finder because it resembled his father. All four figures have the stiff restlessness of marionetties. The Lauvre oinochoe G 438, our No. 36f, is, I think, by the same hand.

36d. Now York, Detail, FRH. 2, p. 264, Fig. 44 a = Busehor, Gr. Vascamaleroi, p. 185. A. Warrior and man. B. Nike and youth.

Month convex, below it a convex course with egg pattern. Foot a simple disc, the side of it reserved: no cushion. On each side of each handle, two black conical projections Below A, 8 2's saltire-squares and one Dourian cross-square; below B same but only saltire-squares.

A small bell-krater in Bologna (323 Zannoni, Certosa di Bologna, pl. 43) has the same shape except that the conical projections are absent, and is not far removed in style.

Oinochoai.

No einochoe can be assigned to the Achilles master; but a pair of einochosi are very closely akin to his work.

36c. B.M. E 523. Nike and goddess.

367. Louvre G 438. Eos and Tithonics

Detached neak, trilobate mouth, high ridged handle, broad base. Above picture, egg; below, clamp pattern. At the base of



Fig. 22.—LERVINOS IN Du. F. C. Coxyndans's possession of Oxymp.

the handle, enclosed it palmette, pointing downwards. The two are by the same hand and especially resemble the Athens calvx-krater, our No. 368,

and the New York bell-krater, our No. 36d. The pair stand by themselves, we have no other einochool with the same shape and patterns.

A word may here be said about the vases classed as school-pieces. They may be divided into three groups: a first group of vases very close to the master's ordinary style, lekythos 33a, Nolan amphorus 20a, 20b, calyx-



Fig. 23.—Lexythos in Synacose.

krater 36a: a second group of vases still very close, but with a character of their own, Nolan amphorae 7a, 7a bis, 7b, 7c, 7d, calyx-kraters 36b, 36c, hell-crater 36d cinechoai 36c, 36f, lekythos 33b. Noar these, lekythos

I can inclined to place here the neck has I have not seen the original, which was amplious with twisted handles Fox, 3, PL 231 ones in the Blades collection.

33c, 33d, and perhaps 33c. A third group of later, more florid, less pleasing style; lekythoi, all with grave-scenes, 33f, 33f, 33h, 33h.

Drawing.

It must be premised that on the three largest vases (1, 2, 3) most of the inner marking of the body is not in brown, but in thin black relief-lines. The use of relief-lines for inner markings is more extensive in the free style than in the developed severe style; and even in his ordinary figures our master uses relief-lines for the parts about the knee, where the severe painters prefer brown lines as a rule.



Pro, 24.—Syranous in the Beitrian Municipe (E 148).

The Achilles master seldom uses any relief-line to emphasize the contours of his figures. This is well seen in his faces: the contour of the face lacks relief. The following exceptions are found on the three largest vases. On I, the horizontal lines of Achilles' mouth are relief-lines; in relief also the lower side of his chin, to mark it clearly off from the spear which passes behind his head. Similarly on 2, the mouth, hips, and chin of Euphorbes, and only these parts of his face, are in relief, to mark them off from the brown hair of the baby Ordipous who nestles against his shoulder. The three-quarter face of Ordipous is also outlined with relief, for it is what may be called a contained face, that is, it is not outlined against the black

background but against a reserved apaze. On 3, one whole face, the fluting insenad's is outlined with relief: the faces of the two friends moving arm in arm are also in relief, but they are 'contained' faces. In the fluting manned, the artist used a relief-line to mark the flute off from the lips and then, having the brush in his hand, extended the relief to the whole face. Finally,



Pin 25.- Calta-Kraten in Restor, inv. 03. 817 [A)

the macoad with the tembourine has a relief-line for the outline of her forehead, the rest of her face being without relief. This same relief-line for the forehead occurs on one other figure in our masters work, namely, the woman on 24. These are the only exceptions to the rule that our master does not use relief-line for the contour of the face.

When the mouth has relief, a little black line is added for the fossette at the corner of the mouth (Achilles on 1, Euphorbes and Oidipous on 2, the two friends on 3).

The nostril is usually but not always marked, and always in black Let us look at 35 (Pis 15-16). In the two men on A and the youth on B we see the more elaborate two-line form, and the same, but with the upright line diminished, in the woman on A (the remaining two faces are damaged about the nostril). The upright line is often omitted altegether; for example, in the left-hand woman on the lekythos 23 (Pl. 14.1), while the right-hand woman on the same vase has the two-line form. These two forms are the usual forms; but in four faces, the lower line is omitted instead of the upright line; in the woman on 24, in the woman on 14, in one of the women on 29, and in the elder youth on the large head of Achilles on 1 a third line is added below the lower line; this line is rarely found on vases, but it recurs on the three-quarter face of Oidipous on 2.2

The type of face may be seen at its best on the larger cases, in the face of Euphorbos on 2 or the face of the profile friend on 3: The head is comparatively broad from back to front, the proportions line, the chin not unduly small, the lips prominent, this nose blunt but powerful. The forehead sloping and almost in a line with the nose. There are no nobler heads in vase-painting than the best of our artist's, and in his minor works, such as the lekythos 23 (Pl 14 1) we find the same mild and beautiful type. Rarely does it degenerate, as it does in the hasty drawing on 14, into a mere caricature,

There are two three-quarter faces in our master's work! Oidipous on 2, and one of the friends on 3. The two are closely alike, for we notice the same ample nestri, the same fassettes at the corners of the mouth and the same black line from the middle of the mouth to the nose. On 3 we find a less common foreshortening, the three-quarter face seen from the back.

The youth on 24 has the two-line form, the youth on 24 has the lower line only, and IT has all three forms. The contril of the second woman on 29 is destroyed.

This third line is common in the work of Kleophrades (e.g. J.H.S. 36, Pt. 5, No. 1).

The ness is occasionally somewhat equition as in Achilles on I, the flute-player on 3, or the Nike on 21, compare the practice of the Berlin unster LLH.S. 31, p. 288, in.).

In the developed severe style there are a new hands seen directly from behind, semant of these are suched in behinds to J.H.S. 30, p. 64, pate 881, the following are bare: our from school of firegos b.M. E.T. (J. S. 1870, Pl. 39, where the head in question is wrought restored); supe in the style of Osesimos. Manchesin (Hufmann, Force of Marchesia,

pl 2) and Vienna University ; later, about 450, the same head is found on the new Nekyis kratet in New York (montioned Bull, Met-Man |. On the Vienus cup, a first step is taken towards the three-quarter ries from behind, for both cars are turned in the same directim. A contemporary if, fragment in Warr burg (J, H.S. 27, pl. 3) already allows the same three-quarter position as on our vase: it appears again, some twenty years later, on the fragment of a large bell-krater with the Calydonian boar hunt (ILM. E 2004). The late from style monetimes in sirts the ene; so on the Gigantsmuchy was in Natha (FRH. 2, p. 196), Athens (Spin street, 1885, 12 7), and the Laurer (FRH. Pl. 98), on the boar hunt volute krater in Nuples (phot. Sommer 11053), and om a South Italian bell-kyany in Leone (158).

The eye is usually composed of two lines, nearly but not quite straight (e.g. 23, Pi 14.1), with a thin brown mark between them for the coloured part of the eye, but the upper line of the upper lid is sometimes drawn as well. So on the stammes 35 (Pis 15-16), three figures have the upper lid drawn, two have not. The upper-lid-line, which lies close to the lower, is marked on the large vases 1 (both figures), 2 (Euphorbos only), and 3 (all the figures), on the B.M. stammes 35 (twice) and once on the lekythes 24. In the eyes of Achilles and Euphorbos (1 and 2), the upper lashes are indicated, in 2 by a single curved black line, in 1 by three such. In 1 the lower lashes also are indicated, by a row of short brown lines; on 27, the upper lashes are indicated by a separate black line, although the upper lid is not marked.

The coloured part of the eye is rendered by a long brown mark; but Achilles and Euphorbes have a more elaborate rendering; the iris is a light brown space, bounded by a straight relief-line on the side near the nose, and by a curved one on the other; within this, the pupil shows as a short black perpendicular line.

The normal type of car may be defined as the following (Fig. 26a), where the lowest of the three lines is moveable. For example, out of the cars on



You 28 - Types of Ean and Ascan

the stammes 35 (Pia 15-16) two have just this form, while in the third, the ear of the young warrior, the lowest line has moved forward and upwards. Sometimes a fourth line is added, a short line within the two upper ones once each on 24, 25, and 17. The our is sometimes simplified by the omission of one or other of these lines, or by the cartailment of the two upper lines in women whose hair is long about the ears (e.g. 21, 23, 25).

Let us now look at the ears on the three largest vases. No ears are indicated on 3, because the Macauds either have long hair covering the ears, or have lost their ears through breakage or repaint. In 2, the man's ear on B is of the normal type, like the ear of the young warrior on the stammes 35; the three-quarter ear of Oidipous has two additional lines, one the short inner line already mentioned, the other a curved line springing from the lower end of the inner upper line; the ear of Euphorbos is hidden by his long hair. On 1, Brise's has the normal ear like Fig. 26, with the added short line, here semicircular: Achilles has a similar, but more complicated ear, with two additional lines.

Males sometimes wear the hair in a razziera, and sometimes they have tong hair with ringlets; but the most usual conflure is that seen in the man on B in the stammes 35 (Pl. 16), where we must notice the two bulges at the back of the head behind the car. This may be an abbreviation or may represent a variety of the conflure worn by Achilles on 1, whose hair is plaited into ropes which pass round the head and are tied together under the

front hair, the confiure of the Omphalos Apollo. In a few figures, the hair seems to be cut close to the head.

The usual coffure for wamen is a very simple one, that worn by Ees on 13 (Fig. 16): 10, 13, 14, 16, 17, 18, 19, 23, 24, 25, 27, 34, 35, 36; strings are sometimes shown in red (10, 23, 27, 35, 36). On 22, the woman tying her girdle has broader strings, rendered by reserved lines, which also pass round the base of the ball at the back of the head, making the coffure which is familiar from the work of the Villa Giulia master (Rom. Mitt. 27, p. 293). Instead of strings, a broad band of cloth passes right round the head on 6 and in the taller of the two friends on 3. On 21 (Fig. 9) Nike substitutes for this band a metal stephane with leaves which stops before it reaches the ball; the hair in front of the ear is then tucked back behind the stephane; the same coffure is worn by the woman on B of 35.

This stephane can also be worn with long back-hair (5, 26). The ends of this long hair are collected into a little bag on 28. Artemis on 22 has long back-hair with a straw garland. The macnads on 3 usually wear long hair or zazziere with ivy-wreaths; one of them has her long hair tied near the neck; another wears a sacces, and the woman on I also has a sacces. A sacces of different form is worn, with a leaved stephane, on 8 and 23.

In frontal standing figures, the stiff leg is usually frontal, and the free leg in profile or nearly so; but some figures have both legs frontal (4, 20, 27), one of the legs being bent a little at the knee to characterize it as free leg. The frontal knee has the form seen on Fig. 8, where the uppermost line denotes the swelling of the vastus interms (1, 5, 10, 21); in 34 the same rendering, but the uppermost line brown; in 4 the upper parts hidden by the chlamys. When the knee is not quite frontal, the rendering is modified (13, 14, 19; 1 and 10); 2 (the Silon, cf. the frontal knee with extended foot on 7).

In the frontal leg, the central ridge of the shin bone is not indicated; but a brown line marks the inner side of the ribus (5, 10, 13, 14, 19, 21, 34); on I this line is black like the rest of the inner marking. Observe on 21 (Fig. 9) the inner brown arcs marking the patella, and compare the similar lines on 13, 14 and 19. Notice on the same wase 21 the two brown lines springing from the knee and joining, or almost joining, some way up the thigh; they represent the boundaries of the quadriceps tendon, and are rendered in the same way on 5, 7, 10, and 35. Finally, on the same lekythos 21, look at the long corved line running up the inner side of the frontal thigh; it is repeated on 5, 14, and 35.

The profile beg seen from the inside,

The parts about the knee are marked with three black lines (see Fig. 17), the lowest of which may be bent or broken in the middle: 5, 8, 9, 10, 12, 13, 14, 15, 16, 21, 25, 27, 28, 31, 34, 36 his. The same lines, but more delicately curved are found on 2. On 17 the lowest line, on 36 the uppermost line, the line of the vastus internus, is brown, in 2, the rendering is like that on 36, but the middle line is also left brown

For the marking of the lower leg, but us turn to 27 (Fig. 2): a long u.s.—vol. xxxiv.

brown line starts from the knee and flows down to the back of the ankle; this line is found on 4, 5, 8, 9, 10, 12, 13, 14, 17, 21, 24, 25, 27, 28, 31, 33, 34, 36, 36 bis; on 13 the line is broken in the middle; it is black on 2 and 3.

On 33 we find a second brown line, starting below the knee, and running down parallel to the shin; this seems to be the second line which appears on the reverse of 2, with its upper part hidden by the hunation.

Let us now notice on 21 (Fig 9), the short enrying line starting near the upper end of the calf-line, and running outwards to the middle of the

calf: it is found again on 14, 17, and 25, and in black on 2

Finally, 21 has an inner arc on the calf: such an arc is also drawn on 35, but in black because the leg is greated. Still keeping our eyes fixed on 21 (Fig. 9), let us notice the brown curved line running close to the outer edge of the thigh: it is repeated on 5, 9, 10, 13, 28, 34, 36. A second brown line runs up the middle of the thigh, starting from the inner end of the vastus line: 3, 5, 8, 9, 10, 13, 14, 21, 31, 36; on 2; this line is black.

Let us now pass to the profile leg seen from the outside. The knee is indicated by two black lines, like the two lower lines of the profile knee seen from the inside 9, 15, 16, 17, 24, 25, 27, 31, 36, 36 bis. 8 has the same knee, but the lower line brown. In 2, the lines are more delicately curved than usual, and the upper edge of the patella is indicated by a brown line. The walking youth on 33 has an additional black curving line above the ordinary lines. On the reverse of 4, the only reverse where here legs are shown, the two lines are reduced to a single curving brown line.

The furrow made by the tendon of the biceps is marked by a short-black line on 2, 8, 9, 15, 16, 24, 25, 27, 31; by a longer bent line in the bent leg of the rider on 32. There is a second short black line pointing towards the foot, at the lower end of this line, on 2 and 31; on 8, 31, and 36 bis.

a short horizontal black line pointing towards the back of the knee.

The line of the biceps furrow is continued downwards by a brown line, often quite short; between this line and the shin is a second brown line, starting nearly half way down the leg and running parallel to the outline of the shin (0, 24, 25, 27, 33). Only the first of these two lines is drawn in the ruler on 32.

There is only one inner line on the thigh: a brown line marks the furrow at the ilio-tibial band: 8, 9, 17, 25, 27, 36. This line is black like

most of the inner markings, on 2;

The frontal foot flat on the ground. The foot of the youth on 5 (Fig. 8) is a good example of the type; notice the shape of the great toe and the other toes and the black arcs marking the ankles. The same toes and the same ankles are found on 4, 9, 10, 19, 21, 30, 34, 35. Of these, 21 and 35 have the great toe-nail marked by a black are, and 5, 9, and 10 have two looked brown lines between the ankle-lines; the frontal foot of Achilles on 1, in which the outer toes are raised a little from the ground, has two black lines corresponding to these brown lines; further the great toe-nail is rendered by two curved black lines instead of only one; and the other toes are more carefully drawn, the side-lines being not separated

but joined with a curve at the top, and each toe-mil marked by two black lines: the toes are also arched in the frontal foot on 22. The woman on 27 has the ordinary foot but the ankles are not marked; only one ankle is marked on 1 and 22. The right foot of the fourth maenad on 3 is slightly three-quartered, and the toes are rendered as on the more careful profile foot while the great toe-nail is the same as on 1.

The only extended frontal foot is on 7. The ankles are the same as in the flat profile foot. The first manual on 3 has a flow back-view foot.

The profile foot seen from the inside. The ankle has the form Fig. 266. The shorter line is sometimes omitted, especially on minor figures. The Achilles tendon is thrice marked, by a black straight line behind the ankle-lines, once each on 3, 6, and 35; such lines are very rare on vasses.

The upper edge of the great toe is indicated by the bent black line seen on 21: on rough figures, this line is sometimes left out. The black line near the sole, marking the 'waist' of the foot (see again 21) rarely fails. We notice on 21 a short black line on the lower side of the great toe; it recurs on 1, 3, and 33. The left foot of Achilles on 1 is slightly inverted, the left foot of the warrior on A of 35 rather more so, and still more the right foot of the woman on 32: all three feet have the black 'waist'-line; and on 1 and 22 the great toe-nail is marked by two black lines. Two forked brown lines, denoting the tendons of the foot, may be seen on the foot of the warrior on A of 35, starting from the shorter ankle-line and proceeding towards the instep. These lines are rare on vases, but recur on 10, and in black on 1. One of these lines is found on 21 and 34.

The profile foot seen from the outside. The ankle is the same as on the interior profile feet, but the omission of the smaller line is commoner here than there. The toes are usually a row of simple arcs (e.g. Fig. 13), but on careful vases the arcs are sometimes double (22, 35); on 1 and 2 the lower arc is carried further round, and so in the little toes only on 21, 26, and 35. Both main forms of toe can be seen on 35 (Pl. I 15-16).

The extended frontal arm, seen from the inside. Let us take as our example the right arm of the warrior on A of 35, and notice, first the general shape, and then the two black converging lines on the inside of the elbow; the brown line on the apper arm marking the furrow beside the bicops; the two brown lines on the forearm; the two short black lines marking the tendons at the wrist; and the transverse black line separating hand from arm. First the two black converging lines: the same are found on 9, 13 and once on 3. On 21 we see the same lines, with two additional transverse black lines to denote the crease at the inside of the elbow: the Silen on 3 has the same converging lines, with one crease-line. 5 has crease-line and only one of the converging lines. On 34, both crease-line and converging lines are in brown. 4 and 7 have only one of these lines, the outer of the converging lines: and 14 has no such lines. The biceps line is found on 3, 5, 7, 9, 13, 14, 21, 34, 35: the same forearm lines on

3, 5, 7, 9, and 21. The tendon lines are black on 3 and A of 35; brown on B of 35 and on 2, 9, 10, 13, 14, 18 bis, 21, 34, 21 (Fig. 9) has, in addition to the other lines, a brown line near the point of the efbow; the same is found on 7 and 34.

The foreshortened female arm on 22 has two black crease-lines and no other lines.

The black line between hand and arm is commonly present when the inside of the hand is shown.

The arm in profile, seen from inside. There is usually a black straight line at the inside of the elbow: 3, 4, 5, 7, 8, 11, 13, 14, 36. 6 and 9 have two converging black lines; and the man on B of 2 has a brown curved line instead. These lines correspond to the converging lines on the inside of the elbow on frontal arms, and a similar pair is seen on the right arm of Arhilles on 1, which shows part of the inner surface.

The arm in profile, seen from the outside. When the arm fulls nearly straight beside the body, we have a black line at the inside of the elbow; 2, 24. For the short brown lines near the point of the elbow on 8, compare 11, 18 bis, 24, 25, 32, and (in black) 2. The long line on the forearm of the man on A of 35 is also drawn on 25. Of the three lines on the same man's upper arm, the two upper ones are found on 24, the two lower, in black, on 2. Three transverse black lines are drawn near the point of the elbow on 33, where the arm is stretched almost straight out; a single transverse black line on 9, where the extended arm is quite stiff. For the two lines near the wrist on 35, compare 24 and 25.

A word must suffice for the hands, which present great similarities, but are difficult to describe. Let us first take the right hand of the warrior on 21 (Fig. 9) and compare with a hand on 5, 9, 34, 35, 36; without the black line at the ball of the thumb, 4 and 10.

With the extended frontal hand on 35, compare the hand in the same position on 17, with an additional line at the base of the fingers, 3 and 36 bls; without the short line on the left, 36. This short line is found again on some closed frontal hands on the larger vases, 3, 21, 35.

The hand seen from the back, raised: cf. 26 and 30; with the thumb showing between two of the fingers, 8 and 36. The hands holding phialai should also be compared with each other. Indication of finger-nails in figures on 1 and 35.

The iliac furrow is marked by a black line with a single curve, or with only a slight depression in the middle: a second black line with a single curve springs upwards from the end near the belly (8, 9, 15, 16, 17, 36).

The frontal collarbones are seen at their full length on two vases only, 3 and 9; they are indicated by two curving black lines which do not meet. The longitudinal furrow over the frontal breast-bone is marked by a pair of black lines on 3 and 9; on 9 these two lines reach only half-way up the chest, and above them is a brown horizontal line.

When the figure is in profile or almost in profile, the collar-bone is a black line, straight or slightly curved, which does not meet the breast-bone.

line. The line of the breast bone is then single. The chest is bounded below by a curved black line (8, 27, 9, 11, 16, 17, 28, 36 bis). Mantle figures often unit the collar-bone line. The nipple is a black are or circle (3, 8, 9, 17, 36 bis) or a brown (11, 16, 18 bis).

The median line from chest to navel is rendered by a pair of black lines on 3 and by a single black line on the Oidipous of 2, and on 17; but not on



Fig. 27.—From LEGYTROS IN OXFORD, 545.

9 or 16. On 36 bis the median line, and the markings near it, are all in black.

The lower end of the thorax is marked by a black line on 8 and 9, and on the frontal torses in 2 and 3, where most of the inner marking is black; but alsowhere this black line is omitted.

Clothes. The young warrior on 35 (Pl. 16) wears a short chiton of thick stuff, bounded at its lower edge by two long black lines with a single curve. Above that is a band of brown embattled ornament, and then a row of brown dots. There are five such chitons on our master's vases (7, 14, 25, 34, 35). Four of these are edged below by the same pair of black lines: three such lines are found on 14. The embattled pattern is common to 7, 14, 25, and 35; two chitons have a dancetty pattern (7, 34); and the brown rectangles seen on 14 recur on 34, although I do not remember to have seen them on a vase by any other master. Where the upper edge of the chiton (25, 34), and its sleeves or shoulder-openings are visible (14, 25, 34), they are bounded, like the lower edge, by a pair of simple black lines. A few brown fold-lines are drawn, below the belt, on 25 and 34.

The short chiton (thin). The only thin short chiton edged below by a pair of simple black lines is on 5; the short chitons on 4 and 13 have three such lines. In these three chitons, the folds are indicated by brown lines; brown lines are also used for the folds on 12 and 24, and in these two vases the chiton is edged below by an irregular brown line. All other short chitons have black fold-lines and an irregular black lower edge; the type of the folds may be seen on 35 (Pil. 15-16); groups of long lines which reach the lower edge are separated by shorter lines which do not. The chiton is bounded above by two simple curving lines.

The thin long chiten usually has an irregular lower edge with black fold-lines. The pair of simple-curving black lines is sometimes found on standing figures; with brown fold-lines on 7, 19, 23, 29, 30; with black fold-lines on 8, 10, 24. Where the fold-lines on the chiten are brown, the long sleeve is bounded by two simple black lines (7, 19, 23, 29, 30); when the fold-lines are black, these bounding lines often cannot be distinguished from the other lines on the sleeve.

The long chiton is bounded at the neck, like the short chiton, by two black simple-curved lines: 3, 5 bis, 6, 7, 10, 16, 17, 18, 10, 23, 24, 25, 26, 27, 29, 30, 35, 36. The woman on 28, and one of the women on 3 have three such lines.

There are altogether eleven Doric peploi; four with a simple apoptygma (1, 21, 22, 35), and seven with the apoptygma overgirt (3, 5, 22, 34, 35).

I have already mentioned the himation figure which appears with great regularity on the reverses of our master's cases. Fifteen of these are collected on pp 184-5; there are nineteen altogether, the other four are on 0, 9, 10, and 16. Four of these figures wear a chiton as well, the rest are content with a single garment. The figure is usually a hearded man, five times a youth and once a woman; they all hold sticks, and hold them in the same way, except the youth on 9, who holds a strigil, the woman on 10, who holds a tamia, and the youth on 18 his. All the Nolan amphorae have this figure, the cally-kraters have it and one of the two pelikai; the large figure on the neck-amphora 2 differs from the rest in one or two details. It is not necessary for me to describe these figures, the pictures speak for themselves

This same drawing of the himation is not confined to the reverses-

of vases, but appears on obverses as well. The standing woman on 23 (Pl. 14. 1) has the same himation, and the right-hand woman on 29 (Fig. 3); the woman on 24 (Pl. 13) the same with a slight variation; for we see the opening of the himation with its triangular folds: close to this himation is the himation of the large reverse figure on 2 (Fig. 6). These folds lead us to the right-hand figure on the front of 11 (Fig. 15); the



FRE 28. - NOLAS AMEDICA IN PERSONALI LAS.

himation here covers both shoulders, which changes the drawing of its upper part, and the nearer leg is advanced instead of the farther, which modifies its lower part; the outline of buttocks and thigh is now marked by long black lines. These same black lines are found in the himation figure on B of 35 (Pl. 16); but in the figure on 35, since the himation covers one shoulder only, the upper part of the himation is drawn in the same way as

on the reverse figures, except that the zigzag lines of the overfall are black instead of brown. The other himation figure on this vase fices right, so that the nearer arm is exposed instead of the farther one; this figure is to be compared with the left-hand figure on TI (Fig. 15).

As to the drawing of the himation in frontal figures, let us compare 16 with 36, and again with the profile himatia on 13 and 14. On 27, the edge of the overfall and the lower edge of the himation are black instead of brown;

but we have found that already on 2, 11, 35.

A favourite motive is the hand grasping the himation or chlamys which covers it: 2, 6, 13 (twice), 14, 15, 25, 30, 36 bis.

Out of the six belinets on these vises, four are Corinthian (5 bis. 7, 8, 35), and three Thracian '22 (21, 34, 35). The corslets on 1, 21, 35 are of one type; the half-seen corslets on 7 and 35 seem of simpler make.

Wings are always drawn as on 21 (Fig. 9): that is, the upper part sown with brown semi-circles, the quills parallel black lines crossed by two

rows of brown arcs: 6, 10, 13, 14, 21, 26, 30,

The favourite patterns of the Achilles master are 5.3s or 2's with usually saltire squares, sometimes other kinds of cross-squares; and in subordinate positions—below the picture on lekythol, or on the backs of other vascs—the key. There are seven instances of stopt macander, without the 5 principle, in 2's and 3's with pattern-squares. He uses the stopt key

twice, the 'clamp'-pattern and the hook-pattern once each.

The ordinary work of our master was decorating lekythoi and the small neck-amphorae we call Nolan. From time to time he turned his hand to other vase shapes; two small pelikai remain and two small calyx-kraters, all decorated with the same kind of pictures the painter was accustomed to put on his lekythol and Nolan amphome; Oldipons and the Sphinx; the departure of a warrior; a god pursning a woman. These vases, lekythos. Nolan amphora, small pelike, small calyx-krater are roughly of the same size: but sometimes the painter takes a little pot of the squat lekythos' shape, and puts two of his ensumary figures on it a warrior and a woman pouring wine for him, small, but lovingly drawn; or a larger case, the stammos. On both sides of the stammos he draws the departure of a warrior, but to fill out the picture he adds an extra figure on each side, Or he chooses the rare and still larger vase the pointed amphora, and covers it with a whole frieze of figures; or a large amphora on the front of which he draws only a single figure, but very carefully and delicately; he does not sign his masterpieces with his name, but he names the figures instead, which he never does in his ordinary work: Achilleus: Emphorbosand the baby Oidipodas.

The master's usual practice is to put two figures, and only two, on the front of the vase; and one on the back, when the vase admits of drawing on the back. All the lekyther have two-figure scenes; although the second figure is not always human, twice a horse and once an immense swan-

[&]quot; it Believely, Jakrhunk 27, pp. 317 ff.

The Nolan amphorae have two figures on the front, with two exceptions, where a single running figure serves to fill the space; and one figure on the back. The two large amphorae have a single figure on each side; the stamnos three figures, the pointed amphorae as many as eleven; the other vases two, or two on the front and one on the back; only once two on each side.

The two figures may be at rest or in motion. They are more often at rest; and then, more commonly than not, one of the figures is frontal and the other in profile, though the heads of both figures are turned towards the middle of the vase. When the figures are in rapid movement, the motive is a pursuit either of a woman by man or youth or of a youth by a woman. Again, both heads, as usual in vase-painting, face towards the middle of the vase.

Of the restful scenes, the commonest is a greeting scene, the departure or return of a warrier or a youth. On three cases, two women are together, on two, two youths: there are three sphinx scenes and two grave scenes, and once only, an athlete with his trainer; no komes, and no fighting.

More than once the reader of these pages must have asked himself. Is it possible that this painter painted white ground lekyther as well? (or perhaps eather, is it possible that the writer will venture to attribute white lekyther to his master?) I believe he did, and that he was moreover a leading white-lekythes painter in his day.

A list of forty-three white lekythoi follows: mineteen of these have already been put together by Bosauquet in one of his excellent papers on white-ground lekythoi: and other writers since Bosanquet have noted the kinship between this and that lekythos in my list. A good number of years separates the earliest members of the series from the latest; and so we shall be prepared for a certain variation from vase to vase; but I believe it will be found that these forty, if not painted by one painter—as I think most, if not all of them are at any rate form a homogeneous group, distinct from other groups of lekythoi and painted in one style. Further, I believe the painter to be no other than our Achilles master: it must be remembered that the technical difference between red-figured and white-ground vasepainting causes cartain differences in drawing; particularly in the treatment of the clothes: " but this allowance made, we shall find the greatest similarity between each of these white lekythol and the red-figure work of the Achilles master. To take an example, No. 31 in my list; one of the very best lekythor we possess. Apart from the patterns, let us compare arms, legs, feet, faces, with the renderings on the real-figured vasus we have been studying; are they not strikingly similar, even to the very curious curving line near the back of the right knee which we remarked on 14, 17, 21, 25, and 2 (p. 212) / And look at the great eye on the shield; it

The Remainder J.H.S. 19, pp. 189-181. I have condition New Jand T in Beautiquet's list, this latter because I have unit seen the vase, which is much restored Rieder (Wesserrandige Allieder Lelythen, p. 119 and p. 21).

groups together our numbers 25, 29, 51, and 10: see also Pairtanks, Atlanton White Lebythei under outh vaco.

are Hierier, third, pay 54 ff...

is just the eye of Achilles on the Achilles amphora (p. 210). Let this one example suffice for the present: I do not intend to treat these white lekythoi at greater length, because I have not been able to study some of the pieces, particularly the Athens pieces, as carefully as I hope to study them, and Riezler's admirable reproductions were not available until my paper was almost finished. The list I submit is a tentative one; but I submit in the belief as I have said that the forty vases form a real group, very likely all by one painter, most of them at any rate by one painter; and, further, that

this painter is the same as the master of the Achilles amphora.

The outlines are generally drawn in glaze-paint, but in dail point on four vases (38-40). The shoulder is white, with egg-pattern and carefully drawn palmettes. The usual brown line below the picture is twice replaced by a band of key-pattern (23, 40) and once by a stopt key (31), both patterns familiar on the works of the Achilles master. Above the picture, the commoner patterns are the Achilles master's favourite patterns; è 3's saltire-squares (8, 24-36, 38, 39, 39 bis) and è 2's saltire-squares (15-23); 14 has a key-pattern; the others have other kinds of masander in 3's or 2's with saltire-squares (Dourian cross-squares on 1 only), without the è principle. Four love-names are found on these vases; Hygiainen (1, 2, 13, 24), Diphilos, Alkimedes, son of Aischylides (8), and Axiopoithes, son of Alkimedes. We have already noticed, on a red-figured lekythos belonging to the Achilles master, one of these three-line inscriptions giving the father's name, Kleinias the son of Pediens.

- B.M. D 48. F. v. 36; Bosanquet D; Wh. A. V. Pl. 2; Klein, Liebl.
 Woman giving rolled garment to girl. HVF1AINON KAAOS.
- 2. Madrid 296. F. v. 38, 1; Fairbanks, Ath. Wh. Lebythoi, Ph. 8, 2; Leroux, Cat. Pl. 34, 1. Woman with tainia and woman with snegmatotheke. HVFIAINON KAAOS.
- Once coll. Somzée. Cat. cente coll. Somzée, Pl 5, No. 100. Woman with clothes, and girl.
- 4. Oxford 545. F. v. 56; Bos. N; detail, Fig. 27; J.H.S. 25, Pl. 3, 2. Woman with smegmatotheke and boy at tomb.
 - 5. Rouen. Woman with rolled garment and woman with alabastron.
- 6. New York inv. 08.258. 18. Woman about to shake hands with youth.
- 7. New York inv. 08.258, 17. Woman tying girdle and woman with alabastron.

"Many of the other lekythes with Dipolice bear a errong resemblance to our group.

¹ mention the following densits for comparison with the red figured vases: legs, 25, 27, 51, 34, 37; arm, 4, 31; arkles, 2; feet, 4, hand extended downwards, 10, 15, 34; hand wrapt in himstion, 6, 9, 13; himstis, 7, 9, 28.

⁽The 'from line' on the foreignd, sen on 1, 31, 24, 40, is also found on the sphere in No. 12 of the red-figured list).

- 7 bis. Berlin inv. 3970. F. v. 44. Seated woman with amogmatotheke, and woman. Δ1Φ1Λ(O5) ΚΑΛΟ(5), The upper half of the second figure modern; it is female.
- 8 Oxford 260. F. v. 33; Box 1; Gardner, Ashmolean Vases, Pl. 20; Klein, Liebt. p. 163. Woman scated with lyre and woman with lyre. ΑΛΚΙΜ(Η)ΔΗC ΚΑΛΟC ΑΙ≅ΧΥΛΙΔΟ.
- Vienna, K. K. Museum. F. v. 59; Bos. M; Fairbanks, p. 235,
 Fig. 50. Woman and man at tomb.
- Vienna, K. K. Museum, F. v. 43; Bos E.; Fretschrift f. Beundorf.
 S9; Fairbanks, p. 221, Fig. 47. Woman giving rolled garment to girl.
- B.M. D 53. F. v. 34; Bos. C; Wh. A. V. Pl. 4. Scatted woman with wreath and woman with string.
- Athens 12784. Riezler, Weissgrundige Attische Lekythen, Pt. 34.
 Woman with pyxis and woman with tray.
- 13. Copenhagen. Seated woman with smegmatotheke and woman with tray. HVΓIAINON KAAO€.
- 14. New York inv. 06.1171. F. v. 48a; Fairbanks, Pl. 10, 1. Woman with tray and woman with smegmatotheke.
- 15. Louvre. F. iv. 16. Seated woman with smegmatothoke and alabastron, and woman with tray. Traces of an inscription.
- 16. Boston 449. F. v. 68; Bos S; Riezler, p. 21. Fig. 13. Woman with smegmatotheke and woman with txinia at tomb.
- South Kensington Museum. F v. 71; Bos. R; Burlington Club Cat. 1904, Pl. 94, H 34. Two youths moving towards tomb.
- Bologna, F. v. 45; Pellogrini, Cat. coll. Palagi ed univ., Pl. 2
 and Fig. 56; Fairbanks, p. 223. Woman with lyre, woman, and duck.
 - 19. Atheres 12795. Woman with tray and woman.
- Athens 12791. Riezler, Pl. 39. Woman and woman with rolled garment.
- 21. Athens 12794. Riezler, Pl. 35. Woman with alabastra and woman with tray.
 - 22. Athens 12790. Woman with tray and woman with smegnatotheko.
- Bonne, F. v. 40; Bes. F; Bonner Studien. Pl. 11 and p. 154
 right. Woman with rolled garment and woman tying her girdle.
- 24. Worcester, U.S.A. F. v. 35; Fairbanks, Pl. 9, 1. Woman with tray and woman with 'toilet-vase.' HVFIAINON KAAO€.
- 25. Athens 1821. F. v. 69; Bos. L.; Fairbanks, p. 242; Riezler Pl. 37. Woman with snegmatotheke and youth with spear at tomb.

- 26. Athens 12746. Woman with mirror and woman with alabastron and wloak.
- 27. B.M. D 54 F. v. 70; Bos. Q; Wh. A. V. Pl. 5. Youth with spear and youth with bag at tomb.
 - 27 his. Petrograd 936. Woman with tray, and woman.
- 28. Athens 12745. Woman with tainia and youth with spear and shield at tomb.
- 29. Athens 1823. F. v. 62; Bes. K., Fairbanks, p. 235, Fig. 51; phor. Alineri 24473, 5., Riezler, Pl. 38. Woman with smegmatotheke and woman with alabastron.
- 30 B.M. D 55, F. v. 67; Box H 2; Wh. A. V. Pl. 26 s. Woman and youth with spear.
- Athens 1818 F. v. 49; Bos. I; Bonner Studien, Pl. 12; Riezler,
 Pl. 36. Sealed woman and young warrier.
- 32. Athens 1980. F. v. 55; Fairbanks, p. 232, Fig. 49. Woman with tainia and youth at tomb.
- 33. Once coll van Brantegham. Box G; Burlington Club Cat. 1888, Pt No. 56. Youth and old man.
- 34. B.M. D 51. F. v. 46; Box H; J.H.S. 12, Pl. 14; Wh. A. F. Pl. 3. Woman with helmet; warrior, and duck.
- 35. Boston inv. 13, 201. Girl with box and woman. AEIOPEIOHS KAAOE AAKIMA+O.
- 36. Boston inv. 13, 187. F. v. 32; Bos. B; Rom. Mitt. 1887, Pl. 12, 5. Scaled woman and woman. A≡IOPEI(⊙H5) KAAO≅ AAKIMA+(O).
- 37. Athens 1822. F. v. 53; Bos. P; Fnirbanks, Pl. 15; Riezler, Pl. 40 and p. 111. Naked youth with strigil and woman with tray at stells. 10
 - 38. Athens 1965. F. vi. 2, 3. Woman with tamia and warrior at tomb.
- 39. Athens 1838. F. v. 57; Bos O; Benndorf, Gr. and Sic. Fasent. Pl. 18, 2; Riezler, Pl. 56. Youth with spear moving towards stelle, and woman.
 - 30 bis. Petrograd 943. Woman with tray and woman with alabastron,
- Cabinet des Médaifles 504. F. vi. 2, 5; Guz. Arch. 1885, Pl. 31,
 Woman and man at tomb.

J. D. BEAZLEY.

⁼ Is it with some healthfum that I imphale this wass in my list.

POSTSCIOPT.

After this article was written, the Ashmolean Maseum acquired at the Jekyll sale a small cidyx-krater of the same type as Nos 36, 36 bis, and 36b in my list. The pictures, which Mr. Hogarth has kindly allowed me to reproduce, are by the Achilles master.



Fig. 29 - Calxx-Krayen in Oxford, 1xv. 1914, 730. (4).

36 ter. Oxford inv. 1914, 730. Figs. 29-30. A. Artemis and Apollo. B. Woman. Above, hurel; below A, stopped macander in 3's with black saltire-squares touching the bounding lines both above and below; below B, key. It will be seen that the woman on B belongs to the series figured on pp. 184-5.

A small squat lekythes in Berlin is also by our master.

34 bis. Berlin. Head of Selene. Below the picture, a red or white line. A very slight work.

By the kindness of Mr. L. D. Caskey, I am able to publish a photograph of the Boston lekythes No. 28 in my list (Fig. 31). It is worth while comparing the folds on the woman's right thigh with the similar folds in Figs. 11 and 28.

The Kleinias vase Naples 3175, mentioned on p. 195, is published in Costanzo Angelini, Vasi dipinti del Museo Vivenzio, Pl. 9; but badly. A hitherto unmentioned Kleinias vase is to be found in Adam Buck, Proposals for publishing by subscription 100 engravings from paintings on Greek



FIG. 30 -CALTE-KRATER IN OXFORD, INV. 1914. 780. (B)

cases which have never been published. Pl. 3. The only known copy of these Proposals is in the library of the Greek and Roman department at the British Museum: it is cited by Reinach in his bibliography (Répertoire, 2. p. 369). The vase was very likely a Nolan amphora, and the pictures are in the same style as Nos. 70-7d in my list

7c. Once cell Samuel Rogers. Adam Buck, Pl. 3. A. Woman running with cinochoe and phusic: ΚΑΙΝΙΑC ΚΑΑΩC. B. Woman standing. 1., arm extended:

Two Nolan amphorae with ridged handles by the same imitator of the Achilles master are in the Metropolitan Museum.

MASTER OF THE ACHILLES AMPHORA IN THE VATICAN 225



Fig. 31.-LEETTHON IN BOSTON, 227, 01, 8077.

226 MASTER OF THE ACHILLES AMPHORA IN THE VATICAN

20a. New York inv. 12, 236, 2, A. Eos and Tithones. B. Youth with stick, standing r.

20b. New York inv. 12 236, 1. A. Woman with ninochoe, and Athene with phiale. B. Youth with stick, standing r.

Below A on each, 5 2's saltire-squares; below B on each, key.

Finally, four vases in American museums are to be added to the list of white lekythol given on pp. 220-222,

- 41. New York inv. 08, 258, 16B. Youth with spear and woman at stele.
 - 42: New York. Scated youth (brown flesh), and woman.
 - 43. Beston inv. 08, 368. Woman with tray, and woman:
- 44. Beston inv. 1440, 12; tent by Professor Richard Norton, Woman with tray, and woman.

Nos. 41 and 43, like Nos. 23 and 40, have a key-pattern below the pictures. Nos. 42 and 44 the usual brown line only. Above the picture: 41 and 42, 5 2's with saltire-squares; 44, 5 3's with saltire-squares; 43, stopt macander in 3's with saltire-squares. 44 is of ordinary size, the others are larger.

J. D. B.

LEUKAS-TTHAKA.

Ir was in 1900 that Dr. Dörpfeld! first proclaimed, to the German Institute at Athens, that Leukas and not Thinki was the Ithaka of Homer. In 1902 he read to the Archaologische Gesellschaft of Berlin a paper on the subject, which in 1903 was published in Melanges Perrot. To this paper Wilamowitz gave a scathing and even contemptuous reply in 1903, and Dorpfeld rejoined in his Leukus, 1905, which also contains his original essay. Since then the controversy has raged without intermission, but it has been almost confined to Germany. This country has not so far contributed any comprehensive paper on the subject," and it would not be easy, so many are the matters that the dispute embraces, and so warm and minute has the discussion become to prepare a statement with less than a considerable valuing at one's disposal. I therefore propose to confine myself here to one of the points in the controversy, and I select that which the Leukodists; as they are called for short, regard as supplying the bost evidence in their favour, and which is consequently noticed in nearly all papers and treatises on the subject. This includes the incident of the return voyage of Telemachus from Pylos to Ithaka, his escape from the ambush laid for him by the Woods at the island Homer calls Asteris, and the identification of that island on the modern map.

A skatch map accompanies, on which, to avoid confusion, the localities are described, for reference in this paper, by their modern names. At the end will be found set out the passages of the Odyssey on which a decision of the points at issue must be based.

The Lenkadists affirm that Asteris is to be found in the island of Arkondi, believed by some to be the Krokylein of R 633, which lies, or can be said to lie, between the N. coast of Thiaki and the S. of Lenkas. The Ithakists contend that Asteris is the rock Duskalio near the E. coast of Cetalonia, in the strait between that island and Thiaki, and opposite the bay still preserving the name of Polis, on or near which they place the

Druhoim had easily anticipated him, in a Sec a short Hibliographical Note at the end review of John's House in W. M. Ph. 1894, of this paper, 03 6

capital of Ithaka according to the Odyssey. Croiset seems to receive no support for his suggestion (Légende primitive d'Ulysse, 20) of Atoko, W of the N. coast of Thiaki, though Goessier (R. ph. W. 1912, 355), in condemning it because too large, forgets that the objection applies to his own Arkondi, which is about the same size as Atoko. Mr. Samuel Butler, who thinks (note, in his Translation of the Odyssey, to r 26) Namikas conceived Telemachus' voyage as from Pylos to Trapani, does not appear to deal with the position of Asteris.



The evidence for identification groups itself about certain points, the first of which is, where were the rôgon θοοί (or Θοοί) of ο 290 (

Early in a Athena directs Telemachus to return home. She warms him that the Wooers have haid an ambush at Asteris: therefore he is to sail by night, to keep away from the islands (*eas rijowo), and to land on the nearest shore (*poory darry) of Ithaka. She does not mention the rijowa boai; the poet does so when describing the ship's run. If we accept the Monro's rearrangement of a 295-300, Telemachus sails at sunset and

heads for Phea, passes 'Krounoi and Chalkis,' coasts along Elis, and than.— έρθεν δ' αδ νήσοισεν έπιπροέηκε θοβσιν, ο 200. Which islands are meant?

Some think, Leukadists and Ithakists alike that $\theta o \delta c$ is simply to be taken as 'swift' vijom $\theta o a i$ being islands that glide swiftly by as a vessel passes them. So, for instance, Merry, Pierron, and Grösehl. Goessler gives sich bewegend or even hellleuchtend. Monro and Hayman, on the other hand, refuse to regard the rendering scriously, and surely 'he steered his course for the swiftly gliding islands' is an absurdity. And of course this

interpretation does not help us to identify the islands.

Dr. Monro, in his note on a 299 f., written in or before 1901, and so ante litem motion, finds it on the whole likely' that the islands are the three always associated with the Homeric Ithaka viz. Δουλίχιον τε Σάμη τε καὶ ὑλήεσσα Ζάκυνθος, ε.ε. in his view, Dulichium (wherever it may be), Cefalonia, and Zantó. But he trankly 'leaves θοῦσιν unexplained,' and the usual interpretation, 'which has satisfied many scholars' (that the νῆσοι θοαί are the Echinades), practically undiscussed. Nor does he explain which islands Athené means Teleinachus to 'keep his ship away from.' If, after leaving the shores of the Peloponnesus, Telenmehus makes at once for the big islands to the N.W., there are no islands for him to avoid.

The Leukadists identify the vijoor boar with the Montague Rocks, following Bourd (Les Phénicieus et l'Odyssée, i. 138 ff.), who describes them from the Instructions Nautiques, and with the help of an extract from the chart, as a line of rocks, about a mile in length; covered in these days with water to a depth of about thirteen to thirty feet, and lying a little to the N. of W. of the middle point of the coast between C. Glarenza and C. Trenito.2 And Telemachus fear, expressed a 300, (he made for the vijour boat) opunions if see Barator diejoi if see alway in that he may stick (rester prix) on these rocks. But all this is extremely doubtful. First, the interpretation of along is new and against all authority. And see \$ 183 f. Secondly, if these rocks, 'presumably visible in ancient times' (Dorpfeld, Leukus, p. v., followed by Goessler), were a danger to mariners, why should Telemachus not cather steer clear of them? Thirdly, Telemachus has been coasting along His from the S. The first three words of a 290, Erder 8' an ingulative έπιπροέηκε θοήσιν, evidently mean that now comes a change, he leaves the coast. But by this time he must be past C. Tremito and some way up to C. Glarenza. That is, he is at or nearly abreast of the Montague Rocks. What then is the sense of a 299 ! Why should Telemachus strike away to the W. in the direction of the scrocks ! For what Michael asks (Heimat des Odysseus, 31), do they serve as a Richtungspunkt? Dörpfeld says, ke.,

Small streams 8, of the Alphene (Sikes and Alien on Hym. Ap. 425).

The interpretation inight be justified if sade were a standing queleties consist of sance. But common as space is, the combination does not some.

² Exact position given by Graha, Apiclopes

o, Phanayo, 50, an 37 54' N., and 21' E.

The Books are accepted by Mr. Agar, However, 260, admitting and a sharp, pointed. Rut Telemachus fear, he instars, is not of shipwayet, as Berard thinks, but of capture by the Wooses.

they are admirably suited as a point to be made for by a ship from Pylos going outside, i.e. to the W of, Cefalonia, as he formerly thought was Telemachus' course to Lenkas. But he no longer believes that, and so the making for the rocks is meaningless. Fourthly, if the poet means the Montague Rocks, he has described the commencement of the voyage and left all the rest art. We must also assume with Dorpfeld that the rocks were in those days above water, i.e. that they have since sunk or that the sea has since risen. These are possibilities which both sides admit. The region is Erdbebrahand, one in which earthquakes are not uncommon. In Zante carthquakes are frequent and at times disastrons' (Encycl. Brit. s.v.). But I need not quote authorities on a point which is generally admitted, or regarding the possibility of crosson. Even accepting these rocks as a then visible obstruction to navigation, Telemachus' heading for them is unintelligible.

The Ithakists ciew is as old as Strabo. It makes the eigen Ooal the Echinades, off the mouth of the Achelous. Telemachus, if he returned the way he had come, would, when leaving the Peloponnesian coast, shape his course for the S.E. and of Cafalonia and sail up its E. coast and along the strait to Polis. But warned by Athané he keeps away from Cafalonia, makes what Paulatos calls a λοξοδρόμησες, heads for the Echinades and, as he is nearing them, outs across to the S. and of Thiaki mentioned by Athané as πρότην ἀκτὴν Ἰθάκης, where he lands in the bay of S. Andrea unobserved

by the Woodra who are emising in the strait.

The difficulties here are first, that Athené may nothing about the Echinades; but that is not a great matter. Next, the run across from them to Thinki is not described, but that is a much smaller omission than has, as we have seen, to be assumed in the case of the Montagne Bocks. Thirdly, the Lenkadists contest the identification with the Echinades. In the Catalogue, B 625, these are not called vigore Goal but Exirat. That is in the description of the realm of Meges, who rules the men éx Δουλιχίοιο Exirate of iception, vigore, at valoves πέρην άλος Πλίδος άντα. But where is Dulichium t. That has always been a crux. It has been found in Dolicha, now Makri un island off the mouth of the Achelous; in an island, now part of the mainland, E. of Makri; in Meganisi, E. of Leakas; in Cefalonia; in the W. part of Cefalonia, in Leukas; it has even been said to be now at the bottom of the sea. Cefalonia and Leukas are decidedly the favourites, and opinion is about equally divided between them. I bazard the suggestion that Leukas will prevail eventually. In that case, if the Catalogue means

But see you Marène in N. Jab. f. d. M. diff. cvill. 236.

For recent distancer's see Mr. Allen in J.H.S. axx 304 ff. and Stillmer in E. ph. W. 1013, 1000 f. The better soften to Bumbery, Hist. of Auct. George, L. 60 f., and Vollgraff, N. His. f. a. 55 Allest. air. 627 ff. The suggestion that also been made by Prof. Warr.

to C.R. ail. 204, and apparently by Kurakhu in W. &t. Ph. 1894; 697 ff. Mr. Thompson, in Larrepool draugh by 133, seems to approve Dorphold appears to make Dalichium pair of the Kingdom of Odyssens, which would involve a discrepancy between the two spice. I have seen this elex contested, and can had no warrant for it in the Odyssey. Permiting Le

to give Meges a continuous realm—as Mr. Allen, Lr. 306, seems to understand—the Echimae must include the islands between Lankus and the Achelons, and the rijan Goal would be the group of rocky islats, certainly pointed in form, at the extreme S, of the line, and looking towards Elis. This is a possible and satisfactory explanation of the difference in nomanclature. In the Catalogue the poet is describing the long line; he is the Geographer for the nonce. In the Odyssey he murely mentions the southern

end which he requires for his story,

But there is positive ground for this identification. Strabo accepted it. and has been followed by many authorities," as Mouro admits. He wrote (viii 3 26), θοάς δὲ είρηκε τὰς άξείας τών Έχινάδων δ' εἰσίν αὐται, πλησιάζουσαι τη άρχη του Κορινθιακού κόλπου και ταις έμβολοίς του Αχελοίου. These islands have most of them become part of the mainland, but the old name survives in one of thom, still an island and now called Oxia. But is the equation book = office correct? In other words, did book ever bear the meaning 'pointed'? For a full discussion Lang refers to Oberlammer's Akarmanien, and all the Homeric material is collected by Buttmann in a lengthy discussion in his Lexilogus, s.v. flore. The chief piece of evidence is Moora, 327, which certainly means 'I pointed,' made sharp,' and shows that book once had the meaning 'pointed.' When it consed to have that mouning the islands would coase to be called by it and become 'Office. Lang says they can be seen at a great distance, and, again quoting Oberhummer that they are in these days a guiding point for navigators. And certainly they are 'pointed.' A drawing at p. 102 of Mure's Journal of a Town in Greece leaves no doubt about the appropriateness of the epithet. Hayman compares the 'Needles'

In addition to the above it seems only necessary to say this, that for all those who are satisfied that the vigou boal are not Cefalonia and Thiaki, and not the Montague Bocks, the matter is really settled. What other islands have ever been said to be, or can be, the vigou boal? I think judgment on this point must undoubtedly be given against the

Lankadists.

The next question is this. In two places in the Odyssey, δ 672 and a 20. Asteris is said to lie &ν πορθμῷ (in δ 845, μεσσηγῆς) 'Ιθάκης τε Σάμοιο τε παιταλοέσσης. Does this location better suit Arkoudi, between Thiaki and Leukas (Dörpield's Samé and Ithaka), or Asteris between Thiaki and Cefalonia (the Ithaka and Samé of the Ithakists)?

A decision depends on what we understand by πορθμός, and the Leukadists as Goessler in W. kl. Ph. 1906, 57ff., affirm that the word is just as applicable to the Macronge between Leukas and Thiaki as to that between Cefalonia and Thiaki. That can hardly be admitted. The former

Interpolations and Contains Couries (Att & R. Acres & Science & Torino, stril.) makes the same assertion.

Ithaks question, von Littensturn, Cyber sim homerchests Ithaka, 1882, and more excently Quarar Lang, Victoriachunges car Geographia der Occure, 40 f.

For instance, unumg the old writers on the

might be described, lossely, as a strait; 10 the latter is an indubitable strait, and strait is the term to use of it. A glance at the map suffices. And indeed the Leukadists have feit the difficulty. I refer to Goessler, Leukas-Ithaka, 50, quoting Gallina, and to Csengeri in W. & Ph. 1909, 318. Gallina says $\pi o \rho \partial \mu \dot{o} \dot{c}$ is synonymical with $\pi \dot{o} \rho o \dot{c}$, which does not always mean "ford" or "strait," but also in general "path" or "way" by water or by land, and Goessler that " $\pi o \rho \partial \mu \dot{o} \dot{c}$, connected with $\pi \dot{o} \rho o \dot{c}$, $\mu 250$ —"path over the sea," means "water-way," not "strait." So that G Logg, after setting out and illustrating the uses of $\pi o \rho \partial \mu \dot{o} \dot{c}$ and quoting the statements of his opponents, asks in despair, 'what then in all the world is the Greek for "strait"? Goessler in reply (W. kl. Ph. 1906, 93) can only repeat that his Meevenge is as good as Lang's. That does not appear to be so, and here again the Ithakists must be allowed to have scored a point.

Next, the Homeric Asteris is μέσση άλί. The phrase might seem to smit Arkondi better, as Duskalio is much nearer to Cefalonia than to Thiaki, while Arkondi is more in the open sea. But μέσσος is often used in an indefinite way and the point has not been pressed. Asteris is also οὐ μεγάλη, and again the phrase is not enlightening, unless, as some Ithakists suggest, there is litotes and the phrase means very small. In that case it is much better of Daskalio, which is about 240 yards long (von Marées), than of Arkondi, which is fully two miles in length. And Asteris is πετρήσσσα or 'rocky,' and that applies parketly to Daskalio, but not to Arkondi, which Paulates describes as γαιώδης and not πετράδης, and which has pasturage in places.

So far the description favours Daskaho, but the rest of 11—λιμετες δ' ένι ναύλαχοι αὐτῆ ἀμφίδυμοι—mises much difficulty. The Leukadists point with triumph to 'twin havens' in Arkoudi, and photographs of these are given by Goessler and Seymour (Life in the Homeric Age). This is perhaps the best piece of evidence in favour of Leukas. Bérard in fact declares (op. cit. ii. 483) that it is the 'one solid argument' in Dörpfehd's whole Leukas-Ithaka case.

The meaning of the words has first to be determined. Parkaxos has not attracted the attention of the commentators or the disputants. It is generally accepted as = suitable for the accommodation of a ship or affording a sife anchorage (I. and S.), as in its only other Homeric occurrence, a 141. Thomopoulos, Das homerische Ithaka, 15, gives suitable for tying in wait in, that is, for a proceeding that must have been common in Homeric times. The readering is supported by rankaxée in later Greek, and by the eight occurrences of köxos and kexáe in the references to the Wessers plot. But the point must be left open, and it is doubtful if the

Whenest Lagram Dags, 384; gives its midth as 18 miles, which is too great—Arkonall really seems not to be in a strait at all. If it was 2 miles further We, it might be so described.

[&]quot;There is room on Darkalia for the ratas of

two churches, a reservoir and a tower. Probably, as Mr. Wace tells not, there had been a mountary there or some such religious institution, whence, as in other similar races, the name, corrupted from Asbernskeler.

Ithakists could derive much benefit from the interpretation, even if they could establish it.

The words λιμένες ἀμφίδυμοι are more important and are variously translated,—'havens with double entrance,' a haven with a double entrance,' or simply 'a double haven' or 'two havens.' Consulting some eighteen commenturies and lexica, I find a decided preponderance in favour of the last, 12. The word ἀμφίδυμοι is treated as the equivalent of είδυμοι, and the presence of ἀμφί is taken by four editors as meaning that the two havens were on opposite sides of the island. This would be against the Leukadists as is also the possible interpretation given by Seymour, op. cit. 72, '" with a double entrance," like Sphacteria'. But it cannot be denied that the meaning may be only 'twin havens' or 'a pair of havens, and that the pair found in Arkondi may correspond to what the poet had in his mind.

One thing is certain, the Ithakists cannot show a real λιμήν on Daskalio at the present day, and some of them in consequence abandon the islet. Bérard (την. cit. ii. 492) finds a double brèche or indentation in the rocky shore, and it may be the remains of a double λιμήν. And see Paulatos, ή πατρές του 'Οδυσσέως, 123, and Vollgraff, Le. 621, both of whom speak from personal observation. The Ithakists here in fact have recourse to the possible changes that the sea, the atmosphere and earthquakes may have wrought in 3000 years. These must, as stated above, be borne in mind, especially as Daskalio is formed of a calcareous rock, and the great crosson which Heligoland has suffered is brought in evidence (Lang, σρ. cit. 46, replied to by Goessler, W. kt. Ph. 1906, 95). Part of Daskalio may have been destroyed, or much of its shore may have been worn away by wind and tide. But it is only a possibility. The fact remains that to-day, as in Strabo's time, Daskalio offers οὐδ ἀγκυροβόλιον εὐφυς.

At Arkoudi the Loukadists have found and photographed the twin havens. These must have been hard to find, for Professor Manly, House or Leukas, 36, declares there was nothing of the sort on the island, and he accompanied Dörpfeld on a visit to it (Gröscht, Dörpfelds Leukas-Hhaka Hypsihese, 26). Paulatos says the same. But there are the photographs! But do these exhibit two real 'havens' | A short strip of land, called by Dörpfeld a 'natural mole,' runs out to a knoll called an islet and has a bay on either side. The bay to the left can hardly be so called, for the shore seems to stretch away in a straight line. If these are 'havens,' then sandy shores on either side of any jutting spit of land may be so designated. Paulatos sees only a διπλή δγκόλπωση, and Michael only 'landing-places'. They are said to be on the S.E. of the island, and are no

14 hat there does not seem to have been great change between Strabo's days and now.

is implement by Mr. Senton, '(and the inthurus him) double shores.' Thomopoules' explanation based on Apoll. Rhodins' won'ts seems unbanable top set 17 f.)

in See the photographs he gives, and the frontispace to 0, Lang's work.

A perticularly hard raticty, von Mandes exys! The discrepances as to such matters are, as Boths has observed, a remarkable feature of this controversy.

doubt protected from northerly winds, but they appear to be open to wind and wave from the S. It would be a poor swell that this mole would be a protection against. But at least the Leukadists can say they are much better than anything that Daskalio can shew. Professor Manatt accepts them, though he is not, I gather, a Leukadist (op. vit. 384 and 358 n.).

Besides, however, the possibility of change between Homer and Strabo, and another consideration which will be noticed presently, the Ithakists can supply one other identifying mark. In Strabo's time Daskello was still known as Asteria. That is at least as good ovidence as the havens of Arkoudi, though Gastav Lang, when he sees the name Asteris. More achor, change to Asteria, sternáhuliche, as the spits of rock which gave the former name disappeared under the onslaughts of natural influences, seems to yield to that weakness for pushing arguments to an extreme length which is characteristic of this Leukas question.

There is a double haven at Phiscardi, on the coast of Cefalonia, some two miles N. of Daskalio. He takes these as the Twin Havens, comparing the Kaλel Λημένες known elsewhere. He points out though he does not as some have asserted, adopt the resource, that, if we read έπι for ένι in δ 846, there is no difficulty. There is an island Asteris, with twin havens hard by. But he prefers to rely on erosion for the disappearance of the havens from Daskalio itself, and to find the ἄκριας ἡνεμούσσας, along which the Woods set their watch (π 365) while waiting for Telemachus, on the maintand of Cefalonia. And that is no improbable suggestion, for, as others have observed, it is difficult to believe that the poet conceived of 'windy heights' in a very small island. ἡπείρου in π 367 may possibly point in the same direction. The uses of the word are discussed by La Roche, Hukka, 489.

This leads to a further consideration which is insisted on strongly by the Ithakists, and freely admitted by the more moderate among their opponents, as Cauer, Grundfrugen, 255, and Reissinger, quoted by Michael, op. vit. 14.—that the poet must be allowed some (Cauer says full') freedom with the scenes he requires for his stories, even though, us the poems abundantly show, he had considerable local knowledge. There are two extreme views on this point. One is that certain places, as this islet of Asteris, existed only in the poet's imagination, that they are, as the Germans

mindace of this rocky strip shows, no may been from the accompanying our, that the water dishes ever it readily, within the whole shore is cutivaly unprotected and cannot be said to back any harbour at all.

This pringraph was written before I had seen Professor Mindy's paper. I now add the following extract from it, p. 36, opposite which will be found a photograph of the double harbour. 'An examination of the seast line under the goldance of Dr. Burpfeld showed, however, no such harbour. The scatters shower of the island, where the double harbour is said to lie, is prentically a straight line from which a rocky strip, a few yards while and four to size to a distance of about seventy-five yards. The

^{1:} Pariates, on est. 199, explains the name from the specking of the sions—Mans derreses supposed to visions desired.

if The places mentioned in the Warderings of Odysseus, commonly included in the Outer Geography of the forgacy, are not here in question; but only the Schaeplane of the space

put it, rein ordichted 18; the other, represented by Dörpfeld above everybody, that Homer's descriptions are accurate representations of then existing facts, and that we can by careful enquiry, recover every feature which he mentions. Both are, one might almost say by general cansent, erroneous. The truth seems to lie between them. Homer know the ground on which the action of each poem took place, but that is not to say that he knew it with fulness and exactitude, or that he did not at times, for the purposes of his story, take a certain amount of liberty with it. Derpfald knows as well as any one how true this is of Troyland; yet he will not contend that we can identify every Homeric point in that region, though those which elude us seem to become fewer year by year. But in the Ionian islands he insists, as Gruhn says, on 'every pebble, and Caner, i.e., describes this initial assumption as a cardinal error in the great archaeologist's investigation.20 Cauer's demand for full freedom for a poer is reasonable. Mr. Gladstone raminded as long ago (an the 'Dominions of Odyssons', Macmillan's Mag. xxxvi.) that 'Homer had no map. He had his eye, and he had the reports of others; and our of these he had to construct a map in his own brain.' That map cannot have been perfect. His fancy had to complete it, and his story prescribed what have been called 'accidental details."

This being granted, Bérard perhaps points the way to a satisfactory solution for Asteria We have in Daskalio a rocky islet that has much correspondence in its nature and position with Homer's description, and, as we shall see, admirably suited for the poetical purposes for which the poet uses Asteris. It had, one may concede for the moment, no haven. The poet wants one. Near by on the mainland are the Twin Havens, of which he has doubtless heard. He transfers them and even perhaps windy heights' for scouts to look out from from the mainland to his small rock. Is the assumption that he aftered things as he found them to this extent for his story a violent one! Pelimusque damasque vicissim. Let not Leukadists object. It seems trivial compared with some of their expedients, -as the voyage W. of Cefalonia, the submergence of the Montague Rocks, or the interpretation of easy or wolvesterdie. This latter word, in its accepted signification of valde projundus, saits the bay at Polis, but not that of Viicho. Therefore it must be rendered ein hief sich ins Land vestreekender Hufau!

There remains to be considered the comparative suitability, in regard to position—which, as Vollgraff observes, i.e. 621, is much more important than more local character—of Daskalio and Arkoudi respectively for the ambush described, and this involves the question of the return voyage of

[&]quot;Herkenrath, who is not a partisan, linds in the later name Asteria infliciont graind for holding that Asteria is not an invention (2), ph. 15, 1910, 1270;

[&]quot; Excepted's full confession of faith on the subject of the verity and actuality of all in Human will be found in his review of Croket's

Layerte In W. St. Ph. 1919, 1941 IL

In Roche (ép. cit. 488) venalla the familiar lines of Hornor,

pietor-bus atque portis quidilibit andendi semper Fail acque petentas, setoma, el home ventam polimusque denomoque vicinem.

Telemachus. As regards suitability, honours seem to be even. If Telemachus returned to Skydhi, as Dörpfeld alleges, Arkoudi is well placed, though, as Panlatos notes, it is unnecessarily for from the capital at Nidri. There is a small island, Theleia,≅ much nearer home, lying between Leukas and Meganisi. But the Ithakists have equally good ground for approving the situation of Daskalio. It is opposite Polis and only some two miles from it. It commands the strait, and, low as it is, one can see over the sea to the S. as far as the Pelopomesus (Berurd, op. cit. ii. 493). The objection taken by the Leukadists, and one which they will apparently never give up, is that Telemachus might land, as he actually does at the S. and of Thiaki. See e.g. Goessler, op. cit. 50, von Maréas, Le. 237, and even Seymour op. cit. 71. The objection seems futile. The Woodrs did not know of Athene's warning, and would assume as a matter of course that Telemachus would return to Polis the way he left it. □

As regards the return journey and the injunction that governed it. icas mome anexer everyea ma, we have seen how the Ithakists concerve it. On the other side I need only state Dorpfeld's case as he propounded it and has since changed it. First, he maintained that Telemachus sought the high sen to the West of Cefalonia and landed in Vasiliki bay in the S of Leukas. But the objections were so formidable that he gave Telemachus course a new direction, exis being made a veritable 'pertmanteau word' into which was packed the complicated meaning, zwischen den Inseln durch aber fern von ihnen. But this was just as bad " as Reissinger appears to admit (Greech), op. cit. 27 f.). We are now to suppose (see the Zusatz in Dörpfeld's Leukus, 16) that Telemachus proceeds up the strait past Asteris to Leukas, where he lands in the bay of Skydhi.2 What then is the meaning of the warning ! Telemachus, in this view, not only cannot get any good from keeping away from the coast of Thinki on one side and that of Cefalonia on the other, but more and worse than that his course takes him close to the ambush at Arkondi.

But in fact further discussion of the return journey is unnecessary, for

Apparently lights on the shart in Beratil, in 419.

The send question of the site of the capital on Thinks cannot be discussed here, but my impression is that opinion preponderates in favour of Polis. Among the old jupers on the Ithacan question Mr. Oladstone's is significant Polis, and Vollgroff's juper, which I may quoted more than once, is in reply to him. See also Binnel, and Mr. Alien in J.M.S. xxx. 364. But there is no want of literature on the milject. The name Polis books like a nurvival, and the depth of water in the lay corresponds to the Rectorin seak-Survey. With Polis there is little difficulty in getting a attlifactory conceptum of the events in Ithaka, the

imidents of Felemachus' trip, and the departure of Herman In a, according to the normatics of the Officery. It may at least be said that there are fewer difficulties with Polis than with any other site.

⁵⁴ Sc had that Consider (op. sit 52) seems disposed he adhers to the first interpretation of take rhour, which he declares to be not only grammatically accurate but also weeklift six-

Chosen because apparently Corpfeld from the grow, near Skydint, for the dwelling-place of Eveneur. Hernange, however (E. ph. W. 1808, 630), denice that the aware could get shelter from the North aind (£ 533) at Evgiron. They would in the site for the steading and Koparse weren N. of S. Andreas

Dorpfeld now holds that the opening passage of a is a late insertion. As he had himself objected to the excision of lines by other authorities, he was naturally blamed for resorting to the same plan himself. His reply to that is in W. M. Ph. 1905, 1842, and is to the effect that he did not excise the lines; he only accepts the athetesis of others made on philological grounds. But the receiver in such a case is surely as responsible as the original depredator, and to those who do not admit the spuriousness of the passage this part of Dörpfeld's case seems to fail entirely. I cannot of course discuss the grounds on which the critics (see Ameis-Hentze's Anhang mangle the lines in question, no two of them agreeing as to the spurious parts. They are really excellent specimens of the stuff that the Homeric criticism of the nineteenth contury was made of. They will be found in Kammer, Einhalt der Odyssee, 622 ff. It is enough to say that Monro and Hayman and other editors do not consider them worth noticing, that Blass' manipulation of the passage leaves Athene's instructions intact, and that, if any one be curious to see how the reasons appear in the light of common sense, he will find a full reply in Barwinkel's Zur Odyssee, 23 ff. Dörpfeld promised to support the athetesis by a Tagesplan of the Odyssey, but I am not aware that this has ever appeared. The discovery that Theoelymenus was Athene was also to help the Dörpfeldian view, but nothing more has been heard of it.

The result seems to be that in situation, character, and suitability for the ambush. Daskatio is at least as good a claimant as Arkondi. As regards the vijourney back to Ithaka, we get, on the supposition that Daskalio is Asteris, a clear and consistent view with a minimum of difficulty. We cannot say the same of Arkondi. The balance of probability is thus against Dorpfeld's position, and I think the same may be said of nearly every other branch of his case, and that he falls far short of the discharge of the ome which is on him. I venture here to state summarily the conclusions which I have come to on some points after a somewhat close examination of the voluminous literature. On others the battle may be allowed to be drawn.

1. That the Catalogue of the Ships in the Had and the last book of the Odyssey are 'late' is assumed by Dörpfeld, and described by Rüter as the Fundament con Dörpfelds Hypothese. It is really its fatal weakness. It used to be a commonplace of old Dissecting criticism that the Catalogue is late, but Mesers. Allen, and Thompson and Wace (Prehistoric Theosetty, 254 m) and others are of a very different opinion. The Catalogue reflects pre-Dorian conditions, and Dörpfeld admits that in it Ithaka is Thinki.

impresses one as establishing a point with satisfaction to himself by giving same evidence for it and their insisting on it strongly as proved to demonstration. It believe, and I can prove it is a sent of final formula with him (Manatt, op. col. 381, 383, 387).

The has been subjected to mercies criticism even in his own country, especially by Engel (Der Wahneltz des Odysmia) who is not an arm hair event but speaks after righting the islamic Strong to his exposure of Dispfeld's methods is, it must be admitted there so good funnitation for it. Dispfeld

It is the same with as. More than one defence of the genuineness of that book have appeared recently. I refer especially to those by Rothe and

Bekner. See also three papers in Class. Philology, vin. and ix.

2 The case with which Dorpfeld recovers all the Homeric landmarks in Leukus should not deceive us. Engel, who knows the ground, questions them all, op. cit. 4.1. But, apart from that, we must remember that all have been found in Thiaki, that Gockoop (Hhoque la Grande) has found them all in Cefslonia and that Mr. Samuel Butler found them all, in very convincing fashion, years ago at Trapani in Sicily! Owns solume forts Hhave est; for hills and havens, and caves and cliffs and springs, and oven Mycenaean remains are not care in these islams.

3. Dorpfeld has not proved a that Lenkas was an island in Homeric days, and some refuse to believe that all the engineers and geologists the Katser may depute can ever prove it. Others, again, are satisfied that it does not matter whether it was so or not. Lenkas could be required as an island, perhaps merely for the poet's purpose, as Wilamowitz at once objected or again, it might be regarded as part of the mainland. See Finsler, Homer-

14, Cauer, op. cit. 242, Michael, op. cit. 12 f and Engel, op. cit. 31 f.

4. Dorpfeld cannot prove that the settlement he has found at Natir is Odyssens' palace. The appeal to Hissarlik is mugatory; in that case there was good reason alrunds for believing that Priam's fortress had once existed in the very locality. In the present case there is reason for believing on the Homeric text that Odyssens was not housed in a Mycenaean keep, but rather in a building that would not leave much sign after 3000 years. Myceannan remains may prove too much. Goekoop is confident that Kavvadias will find Odysseus' palace in Cefalonia, and that he will live to hear the doppers of Phamios played in the Megaron.' The remains in Leukas have yet to be dated and co-ordinated with others. The descriptions of them are various. prehistorie; Arhacan, Mycensean, Achaean-Mycenaean, mid-European, Sec. Prof. Myres' remarks in The Year's Work, 1906, 6 f., and 1907, 30, and Mr. Thompson, Le. 133 and n. And cf. Seymour, op. cit 76, Sitzler, Aesth. Kommentar 2, 176, Engel, op. cet. 18 f. and 40 ff., and Darpfeld in W. M. Ph. 1909, 1185 ff, and 1912 1081 ff, and his Vierter Brief. Hennings, in B. ph. W. 1908, 619 f., objects strongly to Nidri as the site of Odysseus palacs. The ground has been described as low-lying and even swampy.

5. Dörpfeld believes, and tells it als ob er dabei genessa ware Engel), that the Dorians came into the then Ithaka, ilrove its inhabitants into Thiaka, and called the then Ithaka Leukas. It is a mere suggestion, and there is nothing in the tradition to support it. Seymour, who seems to approve can site no evidence. Sitzler op oil 175, considers it most unlikely,

was extremely premature.

The discretion has become very tayofred, and though incline might be quasted too and can. I note that Vollgraff (La 017 h.) In mid convinced. The extension in J.H.E. xxyii Proops alid, that it had been above and according that Lunan was an island in 1000 h.c.

[&]quot;Roths (Die Odyssee als Dicklang, 535)
thinks it strangs the outcasts did not go further
on, as to the richer and more dictant 2 and
they remained just on the other side of the
strait from the Doman femile.

See also Rothe, op. cit. 317, Engel, op. cit. 8 f. and 11, Groschl, op. cit. 30, Athenarium, No. 4087, 241, etc.

- 6. The famous passage a 21 ff, will probably never be satisfactorily interpreted in every particular as it stands. But one thing is taken as certain by many authorities, that the first word in the sentence, àμφὶ δὶ κῆσοι πολλαὶ ναιετάουπι, cannot be applied to Leukas, which has not a single island either to W, or N.
- 7. I cannot ascertain that it ever occurred to any one before the days of Leukus-Ithaka to take the line, which occurs four times in the Odyssey, and is addressed to new arrivals in the Homeric Ithaka, οὐ μὲν γάρ τὶ σε πεζον δίσμαι ἐνθάδ ἐκἐσθαι, as anything but a small joke. See the commentaries. The reviewer in the Athenaeum, i.e., refuses to take seriously the argument Dorpfeld bases on the line. So Miller in Preuss Jahrbb, exvii. 304. When he, Dorpfeld, goes on to say that the Witz is not appropriate at the 'solemn moment' when Odysseus is recognised by his son, he seems to forget the freedom with which Homeric formulae are at times employed.

8. The positive evidence from the epithets which Homer gives to his Ithaka is on the whole against the new theory. Especially, the descriptions obdivide in a 243, and σύχ εππήλατος περί πασέων, δ 607 f., are much less appropriate of Leukas. Engel affirms that there are 30 sq. km. of pasture on it. If that he so, one wonders that Odyssens, its lord, should ever have sent his herds to the mainland. See Hennings in B. ph. W. 1908, 618, Rothe, op. cit. 328 f., Engel, op. cit. 23 and 30 f., and Dörpfeld, W. kl. Ph. 1909, 1186.

There is also, as first pointed out by Wilamowitz, strong negative avadence in this, that Homer does not refer by epithet or otherwise to what is described as a most imposing feature of Leukadian scenery, the white cluffs which are said to rise from the sea to a height in places of 300 m, or over 900 feet. A photograph of these great grey walls in the vicinity of C. Dukata may be seen apposite p. 48 of Weber's Im Banne Homers.

9. The Λεικάς Πέτρη of ω 11, now generally identified with C. Dukato, cannot be inside Honor's Ithaka. Hermes, with the souls of the Woods under his wing, leaves Odysseus' abode for the ζόφος. Be that the W. or N.W. the god, starting from Nidri, would not go first S.W. to the cape. The description units Thinki. From Polis, Hermes makes for the sea (*Ωκανοίο poal) and then passes the Πέτρη on his way to the Beyond.

10 Homer in χ 197 (and of ψ 244 and 347) represents the sun as rising to dwellers in his Ithaka from the streams of Ocean. That again is less appropriate of Loukas, lying W of an enclosed bay, than of Thinki with a much wider stretch of sea between it and the mainland.

If there were my hope that Dörpfeld's book on the whole subject, promised as far back as 1905, would add some additional orguments, one might well pause before coming to a final conclusion, but there seems to be

^{*} Panistov quales soutern Greek equivalents. But Vollgraff, though he objects to Dorpfeld's holosome, they and winds a 1972a.

none. Dörpfeld has spoken frequently since he first propounded his hypothesis but apart from the local excavations and investigations into the Inschatur of Leukas, there seems to be nothing new. Meantime the opposition gathers strength with every year, and now includes Rothe, Finsler, Vollgraff and Drerup. The Leukadists are certainly outmimbered. Cauer is nonplussed Also Fragen über Fragen! statt befriedigender Island neue Rated I (op. cit. 255). He would believe, if he could, but Dörpfeld requires of his disciples a whole-hearted view of Homeric realities which to Cauer is impossible of acceptance. It is a view that must incline all who hold the Homeric Unitarian creed to pray for Dörpfeld's full success, but the present position of the question does not warrant the hope that that prayer will be answered, and the controversy must apparently continue to be carried on. Of enquiries on the spot there have been plenty; Mr. Gladstone's hope, in his last words on the old Ithakan dispute, has been fulfilled over and over again. But still there is no peace. Dr. Leuf, a convinced Loukadist, would lay us all under a lasting obligation if he could but be induced to give us an antopsy such as he has given us for Troyland.

A. SHEWAR.

NOTE.

Partial bibliographies of Leakas-Rhaks will be found in Drahom's Die Rhake-Frage, Berlin, 1903, and Die gegeneirlige Stand der Rhake-Frage (W. R. Ph. 1906, 1551 ft.), in Class. Phil. vii. 210, and in Drorup's Omero, 248 n. Rüter in his Mil Diepfeld mach Leakas-Rhaku (Halberstade, 1911) mentions many mames, and Paularos in his HATPIX TOY OAYXXEOX seems to quote almost every work that has ever been published about Ithaka. Add to these the volumes of the W. kl. Ph. and B. ph. W. since 1900, and Rothu's reports in the Jahresberichte des philologischen Verrins in Berlin for 1965-7, 1909-10, and 1912.

The only discussions in English known to use are Professor Manity's Horse or Lencon. Missouri Studies, 1960. Seyment's Life in the Homers Age, 69 ff., Manut. Argent Days, 376 ff. Leaf in Proceedings of the Hellenic Tracellers' Club, 1911, 21 ff., J.H.S. xxvii. Process xlin. ff., and xxx. 304 ff. (Mr. Allen on the Homeric Catalogue), and Dr. Moniro in C.R. xix. 240 f. Besides these studiess, name of them very exhaustive, a few reviews have appeared, that only one of any importance belong of Gressder's work in the Athennesse, L.C.

PASSAGES IN THE ODYSKEY:

The Womers plot against Telemachine, and Antinone asks for a ship, 8 670 ft.:
Show his nirse form logistopin for theless
to confus Thirty re Educat re manufactory:

A ship in got ready, \$778 ff. and sets our, \$42 ff.:

μοηττήρει δ΄ όναιδάντες επέπλοσο έγμα κέλουδα. Τηλεμάχη φώνου αίπων ενί φρειών όμμουσστες: έστε δέ τα εύραι μένση όλι πετρήσονα, μεσστρχών Ίθλογη το Σάμμω νε καιαπλεύσσης. Λατεμές, οῦ μογάλη λιμένες δ΄ ένι υπόλυχοι μότη διαφόδημων τῆ τον γα μένου λοχέωντες "Αχαιοί.

In the fifteenth book Athone proceeds to Lacedaemon and instructs Telemachus as to his ceture journey, v 28 ft.;

μυηστήμων ο΄ έπιτηδει άμιστάει λυχουσιν δυ πορθμός 'lddage το Σάμοιδ το παισολαίσσης, δύμεναι ατείσαι, = ρίν πατρίδα γούσε Ιεύσθαι, ἀλλά τά γ' οδα δίω: πρίν και τυνο γαία καθέξει ἀνθρόνε μυηστήρων, αί του βίστον κατέθουστε, ἀλλά έκδε νήσων ἀπέχνεν εδεργία έγα, ενατί δ' ἀμών πλείεων πέμψει δέ τω αδρον Κουσθεν ἀθανώτων δε τίς σε φιλάσσει το ρύεται το αυτάρ έπην πρώτην άκτην 'lθόσην ἀφίσηση, έγα μέν δε πόλιν δερίνου και παιστάς έταιρους, πλείτε δέ πρώτιστα συβάνην εδεσφονίσηθον άτθαι.

His departure is described later in the same book. The ship is prepared for sea, and Athene provides a breeze, 292 ft.:

τοιετε δ΄ λεμτνον οδραν δε γλανκόπες Αθήνη.
λάβρον έπαιγίζοντα δε αδότρος, δήρης ταχιστα
εγες άνέντες θέσστα θαλάστης άλμερον δάμρ.
[βάν δε παμά Κροινούς και Χαλείδα καλληνίσθρον].
δύστεν τ' άγλεος εντάωντά το πάσαι άγρασ!
η δε Φεάν έπεβαλλεν έπειγομένη Διός αδρφ,
ήδε παρ' Έλιδα δίαν, όδε ερατέσσεν Έπεισ.
Ενθει δ' αδ νήστοιστο έπειρούηκε δυβου,
όρμαϊσον ή κει θάνατος φύγοι ή κεν άλώμ.

The scene then changes to the his of Enumeus, where he and the disguised (biysseus converse and sheep. At dawn Tohomachine and party reach Ithaka, and disambark and take between, 495 ff., and Telemachine lide his more row the ship to the town, while he himself proceeds to the steeding of Eumaeus. There the swincherd is sent to the town to inform Penelopé, Telemachus recognises his father, and the poet reverts to the ship, a 392 f.

ή δ΄ δρ' έπειτ' Πάκηνος κατήγετο κητε τρεργής, ή φάρε Τηλέμαχου Πολόθου και πάντας έταιρους.

The company disemback and send a messanger, who foregathers with Ennaeus, to rall Penelopi that her son is in the country. The Wooses hear the news and take counsel together, and Enrymechus asks for a slap, that he may go and bring back Antimors and the ship they had sent out. But, as he is speaking, Amphinousus sees from where he sits their ship itself already inside the havon, and Antimore, when all are again together, tells how their plan had miscarried, = 364 ft.:

à πότης ότο τουδ΄ δυθχω θεοί εμκότητος έλυσην, ηματά μέν στουπό ίζου όπ' δερίας ήνεμελησται αλόν έπασσύτερου όμα δ' ήλλιφ αυταδύντι αύ ποτ' έπ' ήπείρου τοικτ' διταμέν, όλλ' έγι πουτικ της δημ πλείαντες έμφυνμέν '11% δίαν. Τηλέμαχου λυχόωντες, ίνα φθίσωμέν (λόντες αύτών του δ' δρα τησε άπηγαγών ολκοδι δαίμου.

Just how Telemoshus' ship slipped post them and got to the town before them is not explained. That they did soo her and follow her may be inferred from the fact that they arrived immediately after her. The only reference to the point is in Amphinoums' words, # 355 ff., after he has seen the Woods, ship already in harbour.

μη τις τη άγγελιας άτροσομος αίδο γάρ δεδον. η τές στρικ του δείτες θείδο, η εξανδος πότου της παρερχομότης, της δ΄ αίσ εδόσωττο κιγήσου.

ON THE LONG WALLS OF ATHENS.

According to the view which has long held the field and is still the most widely accepted, the Long Walls which the Athenians constructed in the fifth century to connect their town and harbour were three in number, viz., two outer walls extending respectively to the mathem and southern sections of the harbour fortifications, and an intermediate wall running longitudinally in the gap between the outer pair.

This theory rests on evidence which prima facis appears very strong. Harpocration distinctly enumerates three walls, known respectively as the Northern, the Southern or Middle, and the Phaleric one, and in support of his statement be quotes a passage from Aristophanes, in which three walls are likewise mentioned. The same number of walls also seems to be implied in a passage of Thucydides, where mention is made, firstly, of a Phaleric wall, and secondly, of 'Long Walls,' which should presumably be identified with the Northern and Southern walls of Harpocration, so as to make three walls in all. A triple line of fortifications is also suggested by the current expression 'one pieces resizes,' which may be taken to mean an inner wall running between an outer pair.

On the other hand there are numerous passages in ancient texts which make mention of two walls, and two only? The usual explanation of this discrepancy is that during or after the Poloponnesian War one of the three walls (the Phalene one) was demolished or neglected, and that from the fourth century onward only the Northern and Middle ones remained. This view is commended by the foot that all the texts referring to a double

³ Lanke, Top-graphy of Albert 1, p. 428; Cartine, Study-children are Albert, pp. 111-25; Wathermith, Study Albert in Alberton 1, pp. 823-91; Kaupert, Monatherickie der Berliner Almiense 1879, pp. 923-25; Amlaich, Topographie ma Albert, pp. 141-9; Grote, History of Grand (16th ed.), iv. pp. 605-4; let Mayer, Graducke der Albertones, re. p. 26; Rusall, Grinchische Gewilchte, lift p. 240.

^{*} S.: Let perus ruix us rain lerno ruxus le rij 'Arrini, de und 'Apierophier apole le Teopheren, roit ce Seption and ruit corino sul rail Calquiedo, fine perus recrus l'Aspero rà retrus.

ii. 13. 7: rok ro yap hangiand rokuno erakun koar more ani rokunera.... ra bi anaga rokun updo ele Nepand recompsorra erakur.

^{*} Antipleon fr. 37 (ed. Wasse; Cramms ap. Plutaird), De Glavia Athenirascom, p. 351 a.; Flutarell, Pericles, ch. 13 § 5; Schol, nei Plat. Georgius, 355 g.; Harpometion s.v. (see n. 2 above).

The passages in question are enumerated in Leads, pp. 422-2.

Leaks, pp. #28-7, followed by man lates writers.

line of walls belong to the fourth or later centuries. But an alternative theory has been set up by Prof. E. A. Gurdner, who maintains that there never users more than two walls, and a closer inspection of the evidence

may show that this solution of the problem is the more likely.

In the first place considerations of common sense tell against a triple line of fortifications. If a double line was quite sufficient, as the event proved it to be, why did the Atbenians ever trouble to build three walls? In answer to this it has been suggested that the original scheme of fortifications comprised only the Northern and the Phaleric walls, and that an intermediate wall was subsequently constructed in order to strengthen the defences on the maritime side. Now this hypothesis is plausible enough from the standpoint of those scholars who locate Phalerum near Cape Colias at the east end of the Phaleric Bay and consequently represent the Phaleric wall as meeting the coast at a considerable distance from the Northern wall, which undoubtedly ran to Pirasus. A comple of walls built on such a plan would cortainly need to be supplemented by an intermediate fortification, for the wide expanse of Phalerum Bay would otherwise have been left defenceless. But, to say nothing of the obvious folly of the Athenians in leaving their sea front anguanded until by a happy afterthought they built the necessary third wall, the location of Phalerum at the east end of the buy is almost certainly a mistaken one, and the Phaleric wall cannot therefore have taken this direction. 1d

If on the other hand we follow Leake and most modern authorities in placing Phalorum at the west end or centre of the bay and in giving the Phaloric wall an abutment on the Piracus fortifications the raison d'éler of the Middle wall disappears. It would not materially strengthen the defences between harbour and city, nor yet would it reduce the length of lines requiring to be held to any appreciable extent. A priori, therefore, the

existence of a third wall is not at all probable.

Again, the expression διὰ μέσαν τείχος does not prove anything as to the number of the Long Walls. It may be taken in quite a different sense from that which is adopted by Harpocration and most modern critics. In a passage of Dio Chrysostom, already natical by Leake, we read: διακοσίων σταδίων είναι την περίμετρον τῶν Αθηνών, τοῦ Πειραιῶς συντιθεμένου καὶ τῶν διὰ μέσον τείχῶν. Τhe plural form τείχῶν suggests that the reference is not to a single piece of massary, but to a whole complex, and the general context proves that the extremes between which the πέχη lay were not a comple of other walls but Athens and Piranus. 'διὰ μέσον τείχος' bere is nothing but a synonym for the Long Walls as a whole.

A similar usage is found in the scholis to Plato: διὰ μέσου τείχος, ὁ καὶ ἄχρι νῶν ἔστω ἐν Ἑλλάδυ ἐν τῷ Μουνυχία τὰρ ἐνοίησε (Περικλῆς) καὶ τὸ μέσον τείχος τὰ μέν Βάλλον ἐπὶ τὸν Πειραια, τὸ δὲ ἔπὶ Φάληρου.¹² In this passage it is clear that the 'μέσον' or διὰ μέσου τείχος'

¹ durlent dilleres, pp. 02-71.

⁴ Louke 25, 427,

^{* 86} Cartins, p. 110; Kampert, pp. 682-4. H.S.—VOL. XXXIV.

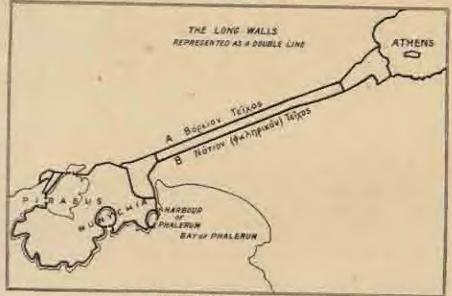
^{*} Handner, pp. 57-3, 562; Juneich, p. 148

¹¹ Or, 6 p. 98 (ed. Dindorf).

consists of two different fortifications 18. Probably, as in the previous quotation, it stands for the Long Walls taken in their entirety; in any case it does not refer to a single wall intermediate between two outer lines.

A third example may be quoted from Plutarch: τήν τε Νίσαιαν ἐτείχισε (Φωκίων) καὶ διὰ μέσου σκέλη δύο πρώς τὸ ἐπίνειον ἀπὸ τοῦ ἄστεος ἐνέβαλε. The term σκέλη obviously denotes a pair of walls, and the rest of the sentence says in so many words that the termini intra quos were the harbour and city (of Megara, in this case).

There can be no doubt, then, that Harpocration was arong in his explanation of the words 'Sid place veixos.' But this is not the only point on which his authority can be impugned. The words which he quotes from



Mitie Ed Section Second Alberty

Aristophanes ' τριῶν ὅντων τειχῶν ἐν τῷ 'Αττικῷ,' by no means suffice to prove the existence of three Long Walls, for it is not at all clear that the reference is to the Long Walls rather than to any other walls in Attien which might be considered as a trio. And again, Harpowation's own words ' διὰ μέσου ἐλεγετο τὸ νότιον' contain an obvious confusion. A glance at the map will show that if and so long as three walls existed, the epithet 'νότιον' must have belonged not to the Middle but to the Phaleric line. It is, of course, possible that after the demolition of the Phaleric wall the 'Middle' wall should have usurped the name of Southern, but this could only be by virtue of its ceasing to be a 'middle' wall. If Harpocration could equate

Leaks (p. 131, n. 1) supposes that the sholing implied a single wall connecting Piracus and Phalerum. But the phase 'their are as at the connection of the phase 'their are as a state of the phase 'the phase 't

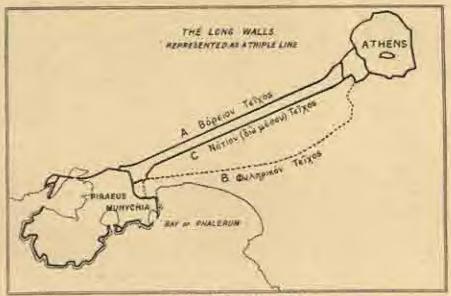
walle

¹¹ Phoening ch. 15.

¹⁾ Cardiner, p. 69, n. T.

"middle" and 'southern' as if the two had at all times been convertible terms, it is plain that the true history of the Long Walls was not properly understood by him. Altogether, Harpocration's statement as to the Long Walls cannot be regarded as authoritative.

There remains the passage in Thucydides. The key words here are "μακρά τείχη," where the plural form is usually taken to imply two walls. This inference is not conclusive, for a good many Greek authors, is including Thucydides himself, ase 'τείχη' to designate a single wall. In the present case the plural form could be applied all the more readily to a single wall if we suppose that the wall had a double face, so that it might be regarded as a couple of walls set back to back.



(New Audeich Sepenspinie von Athen)

So far, then, Thucydides' language is ambiguous. But in an adjacent passage he supplies us with a crux. In the sentence previous to the one quoted above we read έστι δὲ αὐτοῦ (οι the ring wall of Athens) ὁ ἀφυλακτὸν ἡν, τὸ μεταξὸ ταῦ τε μακροῦ (τείχους) καὶ τοῦ Φαληρικοῦ. In this context the words 'τοῦ μακροῦ τείχους' can have but one significance. They cannot be taken to stand for the Long Walls as a whole, for the Phaloric wall, which was an integral part of the system, is mentioned as

shows that it is quite natural to think of a stall so an aggregate of its sections.

" On this point see Gardner, p. 70, and n. 22 below;

The investment wall of the Pelopounssians at Plainta, referred to in the previous note, was likewise built with two faces.

[&]quot; Numerous (miliances are given in Steph-

If iii, 20: been dever the algerian testember. This rates to the single line of walls built by the Poloporassians round Planaes. Cf. also our expression "the Walls" (not "Walls") of Chester, Verk, Jericho, etc.

The use of the plural form in all these cases

distinct and separate from the passon veixos. Nor again can they be made to refer to the Northern and Middle walls regarded as an individual entity. If any two walls out of three could be selected as the Long Walls por excellence, the choice must necessarily fall on the Northern and Phaleric walls for these were ex hypothesi the original pair, whereas the Middle wall was a mere afterthought. It follows, therefore, that the passon veixos was a single wall, viz the Northern one, and that Thuevdides only mentions this and the Phaleric wall, is two walls in all.

So much, then, for the texts which are usually quoted in the discussion of the present problem. In addition to these account should be taken of a passage in Andocides,19 which relates the construction of the Long Walls section by section, and in so doing makes mention of two lines only, a northern and a 'southern' one. The relevance of this passage to the question at issue is not usually admitted, because the speech in which it is contained was not delivered until 392-1 Bx_ and the orator is supposed to be referring to those walls only which were extant at the time of his speaking. No conclusion, it is argued, can be drawn in this case as to the total number of the walls as they stood in the days of Pericles. But this explanation of Andocides' words is unsatisfactory. As the whole of the surrounding context shows, the purpose of the orator in mentioning the Long Walls was to illustrate by them the prosperity of the times at which they were built. With this object in view Andocides had every reason to make the most of the Walls, or even to exaggarate the scale on which they were built. If therefore only two walls are mentioned by him, it is a fairly safe inference that he only knew of two, And this is as much as saying that there were only two, for Andocides himself and many of his audience must have seen the Walls as they stood at the outset of the Pelopamesian War, when all the lines were certainly still in good repair, and it is impossible that he should have made a mistake as to their original number.

A closer inspection of the evidence thus tends to show that the Long Walls from beginning to end were only two in number. The Middle wall never existed: there were only a Northern and a Southern or Phaleric line.

If the above reasoning is accepted as correct, a new problem arises. From the previously quoted passage of Andocides, as also from other texts, to appears that the Long Walls were not completed simultaneously, but that the Southern will remained infinished for some considerable time after the rest of the work had been accomplished. Now if there had been three walls

This passed is rejected perbuling in Amelijans, the Falon Legitions, \$5 172-4.

The above-quoised passage from Thurydidea

joints to the same conclusion. If the term Long Wall (or Wall) I could be specially appropriated by him for the Northern as against the Phalerie wall, it may be inferred that the two walls were not built simultaneously, but that the Northern wall came first.

The chronology of Andronies is confused in its dealis, but he is perfectly explicit about the Long Walls being built in successive stages.

ii jie Paro () S-7: uporas ido edo Neumi edes éreixlouses de rodro vo xudeo, efez ed marque reixos da Adresse . , pord de rosen el reixos el margio ed edems desixiones

⁼ see Plutz-h. De Gleiris Athensiasium, 8 p. 151, where it is montioned that a dulay took place in the completion of the walls

all told, a delay in arceting one of these would have been a matter of no great importance, for the remaining two lines would provide a fairly complete set of detences in themselves. But if there never were more than two walls it follows that one of them (the Northern wall) stood in isolation for a term of years. And this at first eight appears absurd, for a single wall extending through some five miles of open and undefended country would be liable to attack on both sides at once, and thus would seem to be quite untenable

until the companion oxelos was completed so as to secure its rear.

It must be remembered however, that at the time when the Long Walls were built Greek siegecraft was still in its intency, and artillery in particular was conspicuous by its mefficiency or total absence. Under these conditions a fore-and-aft attack would not necessarily be more formidable than an ordinary frontal assault, and a single stoat wall with a double face might after all be quite strong enough for its purpose. It should further be borne in usual that the cost of a Long Wall was considerable. and that at the time when these fortifications were being carried out the Athenians were also spending, not to say squandering, money on the Acropolis and other sites. It thus becomes more easy to understand that they should not have pressed the work on the Long Walls to a speedy completion, but should have made shift for a while with a single $\sigma \kappa_{\ell}^2 \lambda \alpha_{\ell}^{-2}$.

At the same time there can be no doubt that a pendant to the North wall formed part of the original scheme of fortifications, and the construction of the second σκέλος was not abrogated but merely adjourned. The eventual completion of the Southern wall is referred by Andocides to the period following upon the Second Peloponnesian War and the Thirty Years Peace (445 a.c.), and it may well be brought into causal connexion with these events. Previous to the campaigns of 447-6 a.c. the Athenians still had confidence in their land army, and in 457 a.c. they defended Attica by invading Bocotia. At this time, therefore, the Long Walls were not the one and only link between town and harbour, and there was no urgent necessity for a double line of fortifications. But in the ensuing war the Athenian field force turned out to be sadly inefficient, and Attica was left without defence

[&]quot;Wirness the bedierous failure of the Peloponousian Largue in its attempt to storm the ring rown of Platara (Thuo: il. 75 sqq.).

If we seept the view that beside the Phaleric wall there was only one other, we must also hold that this account wall was double frontial. See Thuc for roll, of the passent hypothesis, the Northern wall) is we figure a report. These words imply the existence of an inner as well as an outer face.

In addition to the assemy of the wall the laying of the foundations was an expensive business. It required a special set of generosity on the part of Cimon to fill in the sasesby tracts between Athens and the seaboard.

⁽Pininich, Comon. ch. 13.1

A further argument might be drawn from Thacytides description of the Athenian arrack upon the Long Walls of Megara in 424 n.c. (iv. 66-9). In this account we read of one wall only being corried by the Athenians, and of one wall serving as an abutment for the lines of circumvaliation drawn round the harbour of Megara But it is conseivable, though not probable, that Thurydides should have used "reiges" in the angular form to denote a pair of walls.

[—] Thus. 1: 161, 1: hotare %: κατά τους
χρόσους τρότους (408 m.) | και τά μακρά τόχα...
τά το Φάλικρόνδε και τό ἀς Ωκεραιά...

[&]quot; De Prace. \$8 5. 6.

against invasion. Henceforth it was clear that in the event of a new Poloponnesian War the countryside would have to be abandened completely, and that the Athenians must put all their trust in stone. Under these conditions it was of course wise to make assurance doubly sure, and it is no matter for wonder that the second line of walls should now have been taken seriously in hand. But once the second wall had been completed, the connexion between Athens and Piracus was, humanly speaking, impregnable, and as has been argued above, there is no sufficient reason to suppose that the number of walls was ever raised to three.

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It might also be suggested that by building a second wall at some hitle distance from the first the Athenians also intended to provide a protected complete ground for softness from the sountryside, for which purpose the intermediate area between the two walls would have served admirably. But Throughdes, who twoeds that the houseless folk aquatical on

every open space and on the Long Walls themsolves, does not mention any settlements in between the Walls (ii. 17, 3).

In favour of such settlements Louis quotes Emphan, Hellenica ii. 2, 3: olpay) in roo Respublika in room parpus reixus etc kora bijeer. But them words proce mathing.

THE ANCIENT PLOUGH.

PLATES XVII.-XX

This construction and the development of the plough in Greece and Italy in ancient times is not a subject of general interest either to scholars or to archaeologists. It is, however, one which presents itself from time to time to students of Hesiod and of Virgil, and since the obvious works of reference give but meagre aid to the enquirer. I have attempted to supply here a fuller account than is to be found elsewhere both of the literary and of the monumental cyclence, in the hope that a more detailed discussion may not be without its uses.

I propose in the first part of this paper to discuss and give a rough classification of the types of ancient plough which are represented on the monuments. In the second and third parts of the paper I shall attempt to sift the considerable number of ancient authorities who deal with the subject and to supply some comments suggested by the monumental evidence. The authorities, even when not directly concerned with Hesiod and Virgil, fall conveniently into line with the ancient commentators on those poets, and I shall deal first with Hesiod and then, more briefly, with Virgil.

1 - The Monumental Evidence.

Before we turn to the manuments themselves a word or two of preface is necessary. The distinctions which I shall draw between various forms of plough are designed to assist in the slucidation of the literary evidence, and I have therefore emphasised some features which from other points of view might seem of slight importance. Further, in discussing the first three

The most important article is Siglio's in Daremberg and Sagila's Dist. stat, a.v. arnerum) Int it is very inadequately illimitated. Some additional illustrations are supplied by Hammister's article (a.v. Agreeous) and by Dr. S. Muller - interesting paper Jong, Charges at Mora Men. Sec. Roy. d'Ant. do Nood, 1202). The plough shown in Fig 5 was reproduced in connection with Hestal by O. Laguerrants in Cours. Phil. in hon. of. Paulina. pp. 190 H., and the three cases (Figs. 1, 3, 0), by D. Jahn in Berickle L. Hatha Der & Wise 1467, pp. 74 ff. I have reproduced in this paper all the important monuments agared in there utilizes and I have added a good many units. The earlier dhenssions by Ginerot (Wagen at Fabruarks d. Graces, at Kom. vol. L) and Manger (Mem de l'Inst. 1816, pp. 610 ft.) have proved of little astrice.

B. H. Run's the winter of Phage (Hordelburg, 1845) I have not seen, but the figures reproduced by Maltern (Suddings a. Agrangement, I. p. 273) do not inspire confidence. H. Hehlen's Des Phages, ins Phages (Dillenburg, 1904) contains a major summary of the Latin literary evidence but is more concerned with ploughing than with ploughs.

I am indebted for kind anistance in presuring illustrations to Dr. Zahn of the Berlin Museum, frod Noob of the Altertumanuaum in Marnz, Prof. Calint of the Museu di Yills Papa Gulto in Rome, Dr. Galli of the Florence Museum, M. Leon Derex of the Bildinthough Nationale, M. E. Rabelon of the Cabinet des Medicibles, Dr. Hillahenberg of Copanisagen and, in the British Museum, to the Keepers of the Greek and Roman Antiquities, the Coins, the British and Madiseval Antiquities, and the Manuscripts

classes of plough which I distinguish, I have not dealt with the evidence in strictly chronological order. Since, however, these three classes do also represent evolutionary stages, it is necessary to remark that we cannot expect monuments representing more primitive forms of plough always to be earlier than those which represent more advanced forms. In agricultural communities civilisation does not advance with even strides, and a rustic, either from a natural conservatism or from poverty, often continues to employ a form of implement which has long been discarded by his more progressive or wealthier neighbours. We need not, therefore, hesitate to classify a form of plough as primitive because examples of it are found in use aide by side with more claborate types. The monumental evidence will not allow us to say that at a given date such and such a form of plough was universally employed, but it will indicate broadly the type of plough in use at different periods, and it will enable us to date roughly the introduction of new types.

Secondly, in discussing the evidence I propose to deal with the Greek and Roman manuments together. The forms of plough in use in the two countries in early times are so similar that the monuments can be conveniently considered as a whole, and it will be sufficient to point out in passing such characteristics as appear to be peculiar to one or other nation. I propose further, to omit from discussion the primitive implements from which the plough itself developed, and to take up the story when it is already a real plough and consists of three essential parts—the stock which breaks the ground, the tail by which the ploughman directs the plough and presses the stock into the ground, and the pole to which the draught-animals are attached.

The rudest form of plough, then, consists of a piece of wood so shaped by nature that it possesses all these essential parts and needs but little shaping or transming to fit it to the farmer's purpose. That such ploughs were occasionally in use is quite possible, though I have found no clear example on the monuments and it will be convenient to class as Form I all ploughs in which the main timbers are of one piece. It is probable that such ploughs were never common, and that they varied considerably in shape. The shape is dictated by the piece of wood, and, within certain limits, considerable variety is possible; but suitable timbers can seldom have come in the farmer's way, and we may regard our hypothetical Form I as an occasional variant of the form we are to consider next.

I shall class as Form II, such plonghs as have stock and pole in one piece, but the tail inserted artificially. And here it is to be noted

A label say nothing in this paper of the Egyptian plough which diffuse considerably from the tiresk and Roman. A paper on the subject by H. Schafer will be found in B.S. A. 2. 127 ff. See further Erman. Asy, is neglect. Labor via Ad. p. 569.

^{&#}x27;Some remarks on this subject by E. B. Tylor will be found in A. suiter, Incl. (1881), pp. 74 ff.

^{*} Sagito reproduces from some other source a gum reputed to be in Florence which shows a plough apparently of this form. The drawing is unconvincing units. I learn on anguiry that this gam is not now in the Florentine collection I have not figured it.

a it amould be said at the outset that it is not always ever to deaths from the removentations of how many places a plough is nom-

that though one piece of wood combining all three members would naturally be rare, any tree with a branch curving sharply upwards would provide material for ploughs of Form II., and this type of implement is clearly discernible on the monuments. It occurs for example, on a h.f. cup in the Louvre (Fig. 1), on two gens of Hellemistic or Roman date (Pl. XVII. 1 and 2), and on a coin of the Thracian Chersonese (Pl. XVII. 5). A fourth gen shows a man tashioning what appears to be a plough of this kind (Pl. XVII. 3).

From Italy I have found no examples of ploughs of precisely this type, though the subsequent development of the plough in that country makes it protty certain that they must have existed. We have, however, some specimens of a variant of Form II in which the tail is inserted, not in the stock but in the pole, in front of the angle formed by the juncture of pole and

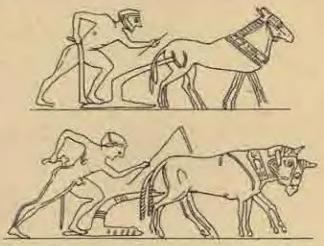


Fig. 1.—Propose from a Black-Figure Cuy in the Lopver.

stock. The best known example of this type is the bronze group from Arezzo, now in the Villa Giulia, in which the plough is armed with a kind of metal shoe seemed to the stock by two bands (Pl. XVIII.). In this specimen, however, the stock is inclined to the ground at a sharp angle (a peculiarity we shall have to notice in some other Italian ploughs), and the relationship to the Greek type is thereby obscured. It is more apparent in the two following examples, where the stock is parallel to the ground as in the Greek

possil. I have elassified them to the best of my atality, but ploughs of Forms II and till are as numerous that the transference of one is two examples from one class to the other is of no consequence, and I shall not sup to argue individual cases.

Berlin 6193, 6003; a third is Furtwampier, Jat. Comm. xxix. 52 present owner unbinam). B. M. 187; a shuller dealing Furtwampler plough of this form which. It was found at Paper in Pressia and is now in the messeum at Thorn. The fail, which is missing, was inserted in a hole in the stock. See Zincheft. J. Edm. 1903, p. 710, Hoops, Waldlames in Kalturyfames, p. 502.

Ant. Genous xv. 62. An actual example of a

* Unless one or more of the grown figured in Pt. XVII. be Roman. Par 2-Penery

rum a Roman Buonza Plagen

IN COPERMANES.

specimens already discussed. Fig 2 shows a plough from a Roman brouze plaque in Copenhagen," Pt. XVII. 6 a medallion of Commodus. In this example

the tail is inserted further from the angle of pole and stock; and the projection of those two timbers behind the tail serves as a foot-rest whereby the ploughnau can press the stock into the ground.

From these two examples it is clear that the weapon wielded by a hero on a certain type of Etruscan cinerary cist (Pl. XIX. 2)10 is a plough of this pattern minus the tail.

The next step in complexity made by the plough is when all the three main members are separate timbers

artificially joined, and I shall class ploughs of this kind as Form III. This



Fro. L.-Intermed or a Cur by Smoothers.

type may be illustrated from a bef, cup signed by Nicosthenes now in

immerces. In the Missenn at Florence slong am 58 (10-34 and two menumbered from Chines). I have noticed others in the False. Collection at Orelisto 7 specimens), Villa

[&]quot; The whole planes is figured in Rlindsenberg Arch. Stud. T. M.; A. H. Cook, Zone, Pt. XXVII.

[&]quot; It is one of the two commonest types of Etruscan fritacotta cinto and specimeno are very

Berlin (Fig. 3)¹⁾ and from a late coin of Centuripae (Pl. XVII, 7). I select these examples because they show very clearly the wooden peg by which the pole is attached to the stock. On the Berlin cup we may notice that the pole has an additional piece of wood lashed to it to increase its length, and this seems also to be the case in the plough of Form II, figured above (Fig. 1 of Pl. XVII, 2). There is also some form of share added to the stock.

The very much more elaborate example of Form III, reproduced in Fig. 4 is said by Ginzrot to be from a relief on the pedestal of a colossal statue of Demeter on the "island of Magnesia." It is fitted with a curved tail, a large metal share, and earth bourds, and the pole, which is apparently in one piece, is supported by a wooden stay.¹²

It will be observed that in the two examples of Form III which I solected as typical, tail and pole are separated by a wide space, and this is also true of our earliest example of Form II (Fig. 1). This space varies

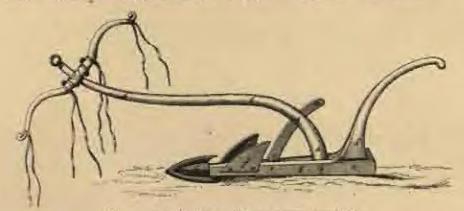


Fig. 4.—Pancon rang a Hearry (arrest Grargor).

considerably even in early specimens, as may be seen from Fig. 5 and P. XIX. I, which represent an early termeotta group from Tanagra now in the Leavers and a bronze from Cyprus in the British Museum. The coin

timin to 3000-3005), Uslogua, and fittish Mineum (R onds B.M. D. 702-794). Others in in the Valicon, at Medana, Miles, Paris, Copenhages, Gafard. The Enert operimes I have seen to Villa Ginlis 3000 i the completigues I is M. D 793. The subject is maknown. There seems no reason to suppose the example to be Echellenna, especially so the Ix5ray is the one part prising from the plough to milds. Ploughs of similar type scene on the Petrosea gold phinle (Arch. Zell. 1872, T. 52).

W Besides this and the Louvee cup, there is a third h. C. up with plenghing series in the British Misson, Room of G. and B. Life 500. A fourth, in Florence, his on each side a group of mon carrying what is thought to be a symbolical phallis-plouds (Distortate, Matterrede, pp. 167 f.). This interpretation, though it is not less from difficulty, seems probable.

This example is an epect and rests solely on Ginzrob's authority. The decraing was given to him by an Gases archimentritic of the Greek church to Vienna, a matter of Medinas which is also on the island of Magnesia. There is on Mr. A. J. B. Wars that Mellaws is on Mr. Pelian, so dimerot on doubt amount the Theodian testrict of Magnesia. These is nothing antecadently improbable in this plough and I are no research to examine it from the discussion, though the drawing is probably not reliable to details.

55 B.C.H axvn 19. 1

" R.M. 182, R.M. 180 is an almost identical group of miknown provenance. Why one of

of Centarripae is somewhat exceptional, for in later examples the space is usually reduced.\(^{13}\) This may be seen in the plough held by Dameter on a r.-f. crater from Cumae in the Cabinot des Médailles (Fig. 6) which shows also elaborate bindings on stock and pole, and in the ploughs which appear as symbols on the coimage of Cerinth in the fourth century, and on some coins of Alexander the Great (Pl. XVII 8, 9). On a second century coin of Emm (Pl. XVII 10); as on a fourth Hellenistic gem (Pl. XVII 4).\(^{17}\) the intervening space has disappeared. In all these examples, however, it will be noticed that pole and stock remain much more massive than the tail. The separation of pole and tail by a space such as we find on b.-f. vases seems to be peculiar to Greek-speaking countries; at least I have found no example from Italy.



FIG. D.—TERRACOPTA GADDS FROM TANADRA.

This is perhaps the most convenient place to mention a remarkable bronze votive plough from Talamone, now in the Museum at Florence (Pl. XX, iii) which falls by definition into our third class, though it differs markedly from the specimens we have been discussing. The pole is straight, and from its hinder end rises the tail. The stock is a massive piece of wood apparently fastoned below the pole by a bolt which pierces the pole just in front of its juncture with the tail. This plough is charry a development of the Italian variety of Form II which we have already discussed. Pole and stock are no longer one piece of wood, and to seeme salidity at the join

the eyen in those groups should be reversed in the difficult to see. Moffer figures a similar group to Copenhagen but without showing the position of the group.

¹⁶ On late coins the nearest to it are the plengte of Leontins and Customs (Hill, Coins of Abelly, Pl. XIV 15, R.M. Cat. Green, Pl. VI, 13).

if Ploughs are very pure to n.f. vascal the only other example known to me is as a Bissolian was with Triptologues now in Berlin (Rudsmooth, Elem. Rute. T. vil.)

²¹ R.M. 2028. On a coin of Pella of Lio perial rimes the tail rises from a small projection at the heal of the stock; Enhand-Blumpy Moss. Gray, p. 87. the plough has become much more massive at this point; the general shape, however, remains the same.



FIG. &-CHAYER FROM CRMAK

This plough stands to the Italian variety of Form II. as the common Form III. to the common Form II. The Talamone plough is, however,



Più 7.—Procentre Serve show as Kraus as Beorge Stryla.

unique, and Italy supplies examples of Form III. indistinguishable from the Greek specimens we have already considered. Fig. 7 shows a plough from a well-known bronze entula in Bologna. The form of this

plough calls for no remark, as it closely resembles the Greek examples."

It is perhaps worth runniking, however, that it must be very light, since the ploughmen can carry it on his shoulder."

From this type, common to Greece and Etruria, the common Roman plough of the first century i.e. differs little. Four good examples are supplied by the coins of C. Vibius Pansa, Q. Scipio, Ti. Gracehus, and Julius Caesar (Pl. XVII. 11-14), which range in data from about i.e. 50 to i.e. 29. Here pole and tail rise together from the hinder part of the stock, stock and pole have lost the exaggerated solidity seen in the earlier examples, the stock is considerably reduced in size, and the pole, not the stock, is now the most conspicuous member in the implement. This form, as typified by the coins, I shall call Form IV.; it is in essentials a refined variety of Form III.

Three coins of Marins (Pt. XVII. 15-17) show a kind of plough which may be regarded as a variant of this type. Here pole and tail meet at an acute angle, as in the normal form, but the stock; instead of standing out at right angles from the tail, projects downwards in a line only slightly inclined to it. These three examples remind one of the Arezzo bronze, and the occasional substitution of a vertical or inclined stock for the horizontal stock of Greek ploughs seems peculiar to Italy. Though it has some amalogies with the peculiar plough which appears on the coins of Obulco in Bactica (Pt. XVII. 18). This, however, seems to be a primitive Spanish type with which we need not further concern ourselves, as it does not occur elsewhere.

For the first century B.c. we thus have a good deal of evidence, and we may fairly conclude that Form IV. was then the commonest type of plaugh. From this point on however, the evidence becomes extremely sanity, and even when ploughing scenes occur on coins, the execution is so rough that it is often difficult to distinguish any details of value for our purpose.²⁴

The Greek specimens are semarkably uniform in type. Since this paper was in print however my attention has been called by Miss E. Radford to a variant represented by a terracults in the neasons at Namplia, said to come from Tanagra. I have not seen the apeniment and bave not full information about it. It is apparently without a total and is dragged by lattice (so is the motivity Mathem plough). The come have on their backs a kind of accordary coke attended to the neck-yoke by a cross-piece. The cross is also peculiar and means to resemble somewhat that of the plough aboven in Fig. 4, it is to be hoped that this example may be published.

The arratic This descring provides, by early contrast, crinition of Virg. Eck. H. 68 mispice water logo referent emperors increased. Her, Epoc. H. 68 fewers nonneous increased boxes willourabentes languide. Parairs (t. 75) has the analysis demonstrative transmitted by the languides of the languides of the languides.

[&]quot;This example has the upward direction of the puls exaggerated as on the follogue situle.

on the colors of L. Piso (Babelon, Moss. & f. Rep. Ross. L. p. 208, 164)

commutes and companies as entitle temperature commutes and companies as entitle temperature for heavy and light soil. It is conceivable that this distinction may relet to the two types shown on the monuments, but Gogs iii. 1. 2, 11. 3, suggest that it is a difference of weight and give

It is not units certain primitive plengts of Sessification countries; S. Weller, ep. 25, pp. 21, 30.

A Por example, on the color of lemina, Ninisa. Berjina, and Sulon (B.M. Cal. Lycarosia, p. 5, an 10; p. 117, a. 9; Pharmon, p. 58, a. 61; p. 195, m. 201). These some to be of Form IV. Phongas appear also an Roman color of Dyne (D (Imboof-Riumer Rosen, Occ., p. 185, 18) and Parimo (Ed. p. 251, 124, p. 252, 131) but of these I have

Further, since the evidence, such as there is, has to be gathered from various parts of the Roman Empire, some of the ploughs may be local varieties. The general type, however, remains much the same, and I have included all the examples I have been able to find, they are not numerous enough to allow of local distinctions being drawn.

A coin of Ptolemais issued under Noro (Pl XVII. 20) shows Form IV. persisting in the first century a.b., and one of Tyre issued under Septimius Severus (Pl XVII. 10) = carries it into the second. A still later example is to be found on an incised Christian tombstone in the Lateran. A Roman bronze group found in England, and now in the British Museum (Fig. 8), shows a plough differing little from these examples except that the pole is draight and the small stock has the downward projection already noticed in some earlier Italian examples. A coin of Alexandria issued under Autoninus Pius (Pl. XVII. 21) is indistinct, but seems to show a variety of this form in



FIG. 8.—BROXZE GROUP FOUND IN DUBLIAN.

which the pole curves round to meet the line of the stock, and the tail rises from the pole at a point considerably above the stock. In general shape we may compare it with the three Marian coins already discussed. A further

not seen sperimens. A l'outpetan inser-published in Mer Emè v. 49 contains an object which may be a plough but the drawing is unintelligible and pre-musbly inserurate.

If the lim which projects diagonally backward from the share is meant to be part of this plough it is difficult to explain. Verm R.R. 1, 29, 2, tertis one analytects semine bours. Hence dicustur, if set constability addition of unneverse small of estima framewarm operation in powers at submet fosses quo plunia ages delabator, cf. Pinn. N.H., veril, 19, 3; Pallad, r. 13, L. a more was similar projection.

occurs on a plough in a late mousic at Brading : Trans. E.I.B. A., 1890-1, p. 1894

M. Laisenn, Mos. Christ, ziv. 7. Small photograph in Marmonni, Mon. Mon. Christ, Lotsins, tav. Ivil.

The projections on the sides of the tail manner be earth bearis as they point forwards. Possibly they are four-rests to assist the pleughinant in throwing his weight on to the share. A very similar plough (but without these projections) appears on a Roman sepalchral relief figured by Spon, Man, Ant. p. 203, but I have been unable to trace the monument.

variety occurs on a late relief from Arlon, now in Luxemburg (Fig. 9), where the tail is curved backwards and the three main beams unite at a central point in a manner not clearly to be distinguished in the relief. With this



Pre- &-- REIZED STOOM ARCOX.

example we may compare a curious bronze model of a plough with backward sloping tail and broad earthboards which was found at Cologne and is now in the Altertunismuseum at Mainz (Pl XX, 1-ii.).



Fig. 10.-Moders Garra Propani

With this our survey of the monuments of classical antiquity closes. The ploughs in use in the countrysides of Greece and Italy at the present day, though they differ a good deal in detail, belong fundamentally to the

^{**} From Prot House of Actor, Pt. LXIV. I smalle to obtain a photograph of the relief have not seen this example and have been

same type as was in use in ancient times. I figure here two characteristic examples Figs 10 and 11). How far the continuity of the ancient and modern types can be traced through the monuments of the middle ages I cannot tell, but since the authorities with whom we shall have presently to deal, belong in part to a later epoch than any of the monumental examples discussed hitherto. I have thought it worth while to give a few examples from early manuscripts. In the manuscripts, so far as I have been able to escertain, only one essentially new type appears, and that, though it does not happen to be represented on earlier monuments, can be shown to descend from antiquity.

In a MS, of Rabanus Maurus dated 1023 are two examples of which one is here reproduced (Fig. 12). The plough closely resembles the earlier examples except for the fact that the pole has now an angular joint



FIG. 11. Morente Leadies' Promou-

instead of a curve. It shows a tendency to revert from Form IV, to Form III. In the other example in this MS. the pole is a straight timber springing directly from the upper part of the tail.

In these examples the full is straight, but the curved tail of the Arlon relief and Mains brunge can be paralleled from manuscripts, one of which

Fig. 10 is from a photograph taken at Ayusoluk near Ephonia. The actual example is Turkish exther than Grook, but I select it in preference to similar Grook, perimens such the photograph shows the details annually dearly. For the photograph reproduced in Fig. 11 cm indeleted to the kindness of Dr. Ashby. It shows the plough suspended from the yoke for carriage, as described by Virgot, \$53, it 66. This specimen has the perpendicular tail of the annual plough.

^{*} I am imbelied to Dr. M. R. James for H.S.—Vill. XXXIV

information with regard to some of the MSS, mentioned below.

^{*} Montegassine, 182 f, 10,

The curve services in Cod. Paris, true 588; I 34 (aboventh century), where the plough has a large share and the pole is noticed to the cut by a cross-bar. This example is not milite the two ploughs in the Gale Hesiod (ascrait, xiv.) though these have a strugght point which springs from the tail.

平下19.

is here reproduced (Fig. 13).4 Here the pole is straight and fastened to the base of a curved tail; the plough may be compared with the Roman bronze shown in Fig. 8:



Fig. 12 - Propose same that Phala 132

Another form of plough which appears in early MSS, has a straight pole which runs parallel to the ground and is supported on wheels. I repreduce



Pic. 13.—Probon gans Cod. Harl. 603.

an amusually clear drawing from a Latin manuscript in the Bibliothèque Nationale (Fig. 14).46 With the details of this plough we need not concern

but the ministress are supped from the minth cent. French Rheims Pasitor new at Utrocht.

^{** 5.} M. Cod Harl. 803; f. 51; similar issigns on it 34 and 66. The implement chosen on f. 211 do use moderating, though something untils appears in some Exception monuments. This MS is English touth cont.

Paris Lat. 15872 (twenth cont.: probably corthern Franch) J. 3. Earlier examples, stiffering to some particulars. In the British

ourselves, and I need only remark that the addition of wheels to the plough dates from Roman times, though I have not found any early examples of the type. The elder Pliny states that the invention was recent and came from Rhaetia.

Here we may close our discussion of the archaeological evidence. The monuments supplied by the first twelve centuries of our era are not numerous, but they seem to indicate that the type of plough which I have called form IV, survived throughout a lengthy period without fundamental medinecation. The most striking changes in its general shape are the appearance of the curved tail and the straight pole. The addition of wheels is possibly connected with these changes. At any rate the whoeled plough which appears in the ministures, in spite of its claboration, is separated by no very



File 11.—Phoron room Oak Perce Lat. 15575.

broad gulf from the simple implement seen on the coins of the Roman Republic

There are, finally, two points which will not concern us in the subsequent portions of this paper, but may conveniently be touched on bare, since they concern students of Hesiod.

First as to the implement carried by the ploughman. The cicals on the British Museum gem (Pf. XVII 4) has a whip, so has the ploughman on

Museum: Cetton Tro. B, v. 1, 3, Jul. A, vi. 5, 3, both eleventh century Augle-Exton. The lower margin of the Bayeux tapeary shows a similar plough with the ploughman scatch between the wheels

Saglin (Fig. 138) reproduces from Caylon,

Ric. v. Pl LXXXII, an angular which has on it a wheeled plough, but the suffquity of this piece seems to not so doniteful that I have not thought it worth while to figure it.

W.M. xviii. 178 (see p. 274); cf. Servius ad Verg. Georg. 2. 172 quoted below.

the Louvre wase (Fig. 1), the Bologna situla (Fig. 7) and on Caesar's coin (Pl. XVII, 14). In Figs. 12 and 14 he has a goad. In the other examples the implement seems to be merely a stick for stimulating the drought-animals, and such I take Hesiod's δραήξ to be. Reins or guide-ropes are not mentioned and they appear only on one gen (Pl. XVII 4).

Second, as to the draught-animals. Hesiod's are Boe ervaeripo aporers, and the ovidence, both literary and monumental, shows conclusively that cattle were far more frequently employed than other animals. One of the ploughs on the Louvre cap (Fig. 1) is drawn by mules, and Homer, though he usually speaks of cattle, attacts in one place that mules are superior. Theograf also mentions mules in this connexion, and we are told that Zens himself was the first to roke them to the plough. Horses and assess were probably seldom employed; I have noted one reference to each in Greek literature.

11 - Hemod.

L

W. 4), 427

τάλλ' έπεκομπόλω κάλω ψέρεω δε γόης δε πο είνης το ολου κατ όμου διζήμετοι ή κατ δρουμου προτερού δε γάρ Βουσίο άμωσο διγρώστατός έπτες εδτ πο Αθησωία πρώμο σε «Κάμωτε πρέμω γομφωνώ πελάπως πρωημηρένως του κάι που δε θέσθοι άμοτρος του μοιβενώς του διάκο αύτογου κάι πηθεύς έπει πολύ λόμου αύτω τά χ΄ έτερος πέρεις έτεμως κ΄ τα μουσι Δάλος διάφους δ' πτελές, δενωτατώ (σταδιάκοι δρούς έλους γέψε πρέσω. Θου δ΄ έννωτείρο δρούς έλους γέψε πρέσω. Θου δ΄ έννωτείρο δρούς εκτρούς του γάρ σθέσος αμαστώ.

4,

Elym. Moun. p. 173, 16

ΑΥΤΟΥΥΘΝ] δια είδη είστε αματραστ και το μες καλείται πηστιο το δε πετύγουο, και είσ με τε συμπλελής ξέλου όχωι το έλυμα κολείται πηστίο, τό τον χωρο προσπεσχήται έχου τό δε έξ έρδα ξύλου έχου τό έλυμα καλείται αίτδημα, τό δε ΕΛΥΜΑ ξέλου έστες, είς ό η έστε συθημα οδιστι έττθεται και την για σχέξει. ὁ δε κράτει ὁ δμόν, καλείται ΕΧΕΤΑΝ, τό δε δια του ελύματος διακλημένου ξυλόμους, είς δ ή έχετλη εαθίσται, όλος το δε ξέλου τὸ όπο πούτου γιαμείται επί τους βιώς, ΕΥΝΕΣ το δε όπο του γύνου είς του (Εγρος, ΕΣΤΙΙΒΟΕΥΣ).

Hesyali an TYHE

The Retirement players the hernthems in the deningue

at Soph, and \$41 and Schol, Lycophican 817. Vario (R.E. L. 20, 4) states that in Campania, where the soil is light, nows at seaso were used for planating of Pliny, N.H. viii, 43.

[&]quot; So Math. Pol. vi. 41. 101.

[&]quot; N. 708, + 32, # 374.

^{- -}

^{≠ 1201.}

[&]quot; I'm Manga av feifen

Schol Ap. Rhed. iii. 222 "

Λότογρασο δε φησικ άματρας τρες αυτοδιαστολής του σηκτώς δου γαρ αροτρασ είδη, αυτόγρασο και συρτίο συμπός με αυτ έστι τὸ εξ συμπολής έχου το έλυμα. ΕΔΥΜΑ δε όστις, το Δ ό θεις έστιθεται τὸ δε ώπό του ελύματος ξέλος έπὶ τούς πόμα σέθνου, ΓΥΗΣ καλείται, τό δε άπο του γίου, ΙΣΤΟΒΟΕΥΣ - τουστος με τὸ παστός στι του δί τὸν κατασκευής Ερατιαθένης σε τῷ Αργετερονική παραδιδιατικ αύτογρασο δε έστις αύτινος το έλυμα σέκ ευτίς το μυμπολής.

Pollag, | 2524

Αρότρου μέρης ΕΧΕΤΣΗ το κατάσειε ξύλου ορθόω οδ έχεται ο άρότης, αύτο δό τη καλοσ αυτού καθ ά της χείρω έναφραξες χειρολαβει. όπου δ' εμπεκτήγες η έχετλη, άλεη, ώ δε δ βορώι δυβρμοσται ΕΛΥΜΑ, το δε άροις πόδημος, έναι, βε το δωρές εύρθης, ά δε βερώι δρημοσται δε νώγδες το μόν έκτασμαζε εύτοῦ με δυατείνεται να έλυμα γεγομοβομείνως ΕΥΗΣ, το δε μετά τον γέρη, ΙΣΤΟΒΟΕΧΣ, εύ δε τέλου είτοῦ το μετό του ζυγόν, κορώνη.

& Mai femily Leville MSS: femily: Vocksantoits

Muschignilia od 441

ΓΥΗΣ, το λεγημισίου γροστιού του άρωτρου. ΕΧΕΓΜΙ, το έμπετηγού ξύλου τῷ γος, δι επτίχοντες οἱ άρωτρουστες εινούστο έλων το Δροσρού. ΕΧΥΜΑ, το προστρημουρισίου τῷ γος εἰς ὁ ἐμβαλλετοι ἡ δεκ. ΙΣΤΌΒΟΕΥΣ δι καὶ Ισταβόη λόγεται, τὸ ξύλου τὸ δάρου μέχρι τοῦ ζυγοῦ τοῦ έπικτιμένου τοῦς έμους τῶν Βοῶν και ζειγνέντος αίτοις κὸπέτηγο δε καὶ οἶτος τῷ γὸς σιβρουθείς δια τίναι στρηκότου.

Proclim ad 425

ΦΕΡΕΙΝ ΔΕ ΓΥΙΝ. Περί πρότρου κατασκευής σε τούτος διδιάκεις, και δει εδίδεια είν ή μετακ, τι το ίλομα, τι α γερι, τις ό ίσταβουία, τις ή εχετλη, έξ διο εστε το θρότρου. ή ρου εσό θεσες είτι το στόσμου από το έν τη διατρούν σχίδου την γίρε ταιτο δε το ελόματα περιημμονεία δε πέρε εμβεθλομένω είς από καλού το κά δε ΕΛΥΜΑ είντι το έρεληθές είς τό τήν θεσες κατέχως ξύλον κατά το δισμού διαθού είχειδης, δικατά θάτερου μέρος το δισμού είχειδης έχειδης του δισμού δισμού του δισμού του δισμού του δισμού του δισμού δισμού δισμού του δισμού του δισμού δισμού δισμού του δισμού του δισμού δισμού του δισμού δισμού δισμού δισμού δισμού δισμού δισμού δισμού του δισμού δισμού δισμού δισμού δισμού δισμού δισμού δισμού δισμού του δισμού δι

B

Proclus and 425

ΓΥΠΝ, το λεγώρουση γιοδίτους του δρότρους δυτίκου κόν εξηγή, φέρα και άπόθου κότη και μή άμελθατης. Λέγεται δε γρης ότα δεθ παρά της γόρο τότας. ΕΛΥΜΑ, μέρος τί του δρότρου το τος μουφείου δεθα συμβάλλοτου ό γύης τος Ιστοβούς. Τλυμα δε παρά το έλλεται δε ότα κυλύπτες. ΙΣΤΟΒΟΕΥΣ λέγεται παρέ έτεται καλ τό μετά τόν έχετλην ξέλως. ΑΥΤΟΓΥΟΝ δε το μουβέλου λέγει εδ έχου έξ υξτογρότο του Ιστοβούς.

Tentana ad 425

ΤΚΗΣ 40τε το ύπο γην ξύλον του έματρου είς δε ή δενες, ήγουν το αίδημος εμβάλλετου. ΕΛΥΜΑ το μέσου του δρότρου έσου ο γορεβου Πληθείς στουδού του γεορ και του βομίος. γόρεβους διέλος ΙΝΤΟΒΟΕΧΣΤΟ καί ΚΝΔΡΥΟΝ, διάρμος

^{**} I print the longer version of the hole from exxil. 0 and professed by Merkel, agrees in all the scholla in Cod. Par. 2727 (ed. Brunck) essentials.

The aborter version, contained in Cod. Lace.

Et. Magn. p. 333, 37 :

ΕΛΥΜΑ, μεροκτι του δρότρου δε τῷ μέσφ Ιοθα συμβάλλεται ο γέης τῷ ἐσταβόρε πορύ τὸ Ιλύνιε ὁ ἐστι καλύπτερ.

Et Geld p. 120, 34;

ΓΥΗΣ, τό ευτώτατος depos του δρότρου τό πρόε το ξύλου το λεγομένου γονίτεου.

W. D. 465:

II.

είχεσθαι δέ Δεί χθοσίο Δημητερί θ΄ άγεη, έστελέα Βράθειο Δημητερος έσμο άστην, άσχόρειος το πρών άχεταν, δε' δο δερος έχνελαι χειρί λαθών βραφεί Βρών έπὶ σώτειο έκησι ένθρουν έλκοστου μεσάθων.

408 farqua codd, farque Brunck.

Ac

El Maga, p. 173, 27

roi & Crym the riffeness for rovy abyesus the Bone of air (rbykas, at hi Bories, at & morning sahalare.

Schol. Ap. Rhod. lit. 232

ron de Copoi tà instilliuren en role abgiron tins Iloin al per freglat, ai de permalia

Pricelina and 407

ΕΛΚΟΝΤΩΝ ΜΕΣΑΒΩΝ, τα μέσσαβα τών μεσσάβων λέγονται δε ω του (υγού γλυφαίν και ο Καλλιμέχου, Μέστοιβο βαίοι εποδέει ελευστών τῶν βούο τὸ Γεδρούν τῶν μεστάβαν, τὸν (κγον εν φ al γλοφαί.

11.

Proclus of 463:

Του δό Ιματτο τῷ ζογῷ τεροβολλομενου ΜΕΣΑΒΟΥΝ ἀρομαζώταν, δε σεροϋπετοται κεροῦς εἰν τὸ μέσου ἐνθέτετες τοῦ (εγοῦ), ἡν ΕΝΔΕΥΟΝ καλούσεν, εἰκότου κότεν, ὁτι διὰ τοῦ ϋμπηνινιών ἐκὶ τὰ κῶντα ἀρθετ τῶν Βαῶν, κακε αίττον τὰ ἔνθμουν ἔλκονται τῷ μεταβον, ανντιετόρενου γὰρ οδτος ὁ ἰμᾶς περί τὸ ἔνθμουν ἐθελκεται κὰ ἄρωτρος. εἰ δέ γραφούτο μετα τοἱ ν μεταβον, λέγοι ἐν αίτε το ἔνθμουν μεταβούν. Εὐντε μέσου ἐντε τῶν βαῶν τῷ ζεγῷ ἐμπεταβούν εθχια ἐπελαμβαντρετος εἰδικε τὸν ὁρατρια τῷ χειρὶ, καὶ ἐπε τοῦ ἀρμο ἐκείνων τον Βαῶν, ὡς ἀν πρόθειων γὰνητοι τῶν Βοῶν τὸ ὁρατρια τῶν βοῶν τὸ ἐλον ἄρωτροι τὸν ὁρατρια τὸν ἡρατρια τὸν ἀριστροι τὸν ἐλον ἄρωτροι τὸν ἐλον ἄρωτροι τὸν ἐλον ἄρωτροι τὸν ἐλον δορος.

[Suylas, e.s. MEZABON :

to plane the Bole Elker.

Proclus ad 407.

ΜΕΣΛΙΟΝ & πρός τός (υγόν, πλατιν Ιμός δε είς την ξυλίτην είρεης έντιδεται, ήτις ΕΝΔΡΥΟΝ καλείται παρ' όσος ξάλιστε ή χλοιρας, ή ότι που βόλος δρός και μέσα τοίντε το ίπαι τα μεταξύ των βοδο προσδελεμίτα τη αμέτρη ή του (υγόν ή του Ιστοδοκα.

Polinx, 1, 252

ο δε πλατικ ήμας ό της Δυγώ καμακοθουτόμετας έχεβουσε ή ΜΕΣΛΕΟΙΟΝ καλείται καταλαμάδουστε δ΄ αίτας όταν περιελέξωστε είς το του ζυγώ τρέπημα κερείδα ξυλικέν έμβαλίντει ή επλείται ΕΝΔΡΥΟΝ. Text 250 and 467

ΕΝΔΡΥΟΝ έσται εκά Ιστοβενές καὶ βυμόν καλείται. ΜΕΣΔΒΟΙ Μ οἱ λόρου οἱ μέστο έστες τοῦ ζυγοῦ καὶ συνδέσετες τὸν βυμόν τῷ ζυγοῦ. ὁ δὲ λέμας τοιοίταν έστες τθχου τῷ χθανίω είμασμένη δτικο ἄρξο ἄροτριᾶν, καὶ οἱ λώρου τοῦ ζυγοῦ ἐλκωσι τὸν βυρόν δηλόνοτε τῶν Βοῶν κοκυμότων.

Maschopalus od 463

λέγω δευν λαθών το χειρί το σεμια της έχετλης το βαίκετερον έκτείτης έπί το κόπος του βαίω δεί του ΜΕΣΑΠΟΥ, δίγουν του λώμου του παρά τω ζείγω η προσθέθεται ο Ισταθονέν, Οκώτου το ΚΝΑΡΥΟΝ, δίγουν αύτου του Ισταθούς ώπο μέρους δέ όλου λέγει το δρατρου.

Henryll as MEYABON

if application have to true irreduce uping pione the Coyde upartioners & twee decision.

Hesych av. INTOROEYE:

Βεκμίο ζύγου νε τω απότοψε άλλοι δε μέρου πύτου έπτη έστια δρθου έστως διακέμ έστυς.]

The passages of the Works and Days which deal with the plough are two in number. The first (427 ff.) begins with instructions to the farmer as to the wood required for a plough, and passes, by an easy transition, to the oxen and the labourer to be employed when ploughing. The second (467 ff.) describes the process of ploughing, and gives incidentally some information as to the yoking of the oxen. The second passage thus serves to supplement the first, where nothing was said about the yoke.

The words which Hesiod employs in these two passages are all technical. In literature it is only in the learned poetry of the Alexandrian and later ages that any of them recur, and our knowledge of their meaning is mainly derived from grammarians and lexicographers, whose own information is often imperfect and often obscurely expressed. The authorities are classified is and set out above. On both Hesiodic passages two main views are to be discerned among the authorities, the difference in each case turning on the interpretation of a single word. In both cases, also, the scholia which bear the name of Proclus give the two interpretations without a hint that they are conflicting.

We will consider, first, the passage which deals with the body of the plough. The words whose meaning is here to be determined are γύης, Τλυμα, ἰστοβοεύς, αὐτόγυος. Το these we may add the plough tail, ἐχέτλη, from 467, since the ἐχέτλη belongs to this part of the plough; but in this case the tneaming of the word is discernible from Hesiod himself, and there is no difference of opinion among the authorities.

Ŧ.

A.—The authorities, as has been said, fall into two classes. I take, first, the explanation given by the Etymologicum Magnum the scholia to Apollonius Rhodius, Pollux, Proclus in his longer note, and Moschopulus.

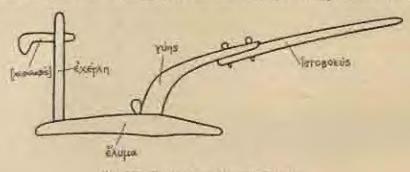
For the sake of convenience Liuve sometames been compalled to divide notes into their compound parts.

^{*} It is correctly given by Photius, Suides, Zonaras and El Maga. v.s. in addition to the

passages quoted allows. Hervoh, gives the sorrest meaning and adds on a state of a state on a wide row and a state of the meanings there is no other evidence nor are they intrimically implatify.

These writers are agreed that $\tilde{\epsilon}\lambda\nu\mu\alpha$ is the operating part of the plough which does the actual work of breaking the ground, h gives the curved beam projecting from the $\tilde{\epsilon}\lambda\nu\mu\alpha$, to which the front part of the pole, $\tilde{\epsilon}\alpha\tau\alpha\beta\delta\epsilon\dot{\phi}s$, is attached. We learn from them, further, the names of some parts of the plough not mentioned by Hesiod— $\tilde{\epsilon}\nu us$ or $\tilde{\epsilon}\nu us$ the iron share, $\tilde{\epsilon}\lambda\delta\eta$ the socket of the $\tilde{\epsilon}\chi\tilde{\epsilon}\tau\lambda\eta$, $\tilde{\epsilon}\chi\epsilon\rho\delta\lambda\alpha\beta\delta\epsilon$ the handle inserted in the $\tilde{\epsilon}\chi\tilde{\epsilon}\tau\lambda\eta$ $\tilde{\epsilon}\kappa\rho\delta\lambda\alpha\beta\delta\epsilon$ and $\tilde{\epsilon}us$ can be seen on some of the representations of ploughs given above, but they have no bearing upon Hesiod and I shall say no more about them.

If, therefore, we omit for the moment two points where the authorities who represent this tradition are not agreed, we may construct from this account a plough which corresponds exactly with the early ploughs of Form III, shown on b. f. vases (Fig. 15: based on Fig. 3). This explanation of Hesiod is therefore strongly supported by the external evidence, and it goes lack to a good authority, for as the scholiast to Apollonius tells us.



Vis. 15 - Diagnate ov Hamp's Pincoln.

it is derived from Eratosthenes, that is to say, it represents the conclusions of Alexandrian scholarship in the third century n.c.

The authorities who give us this explanation differ however, upon two points of detail. First, Proclus and Moschopulus say that the $\sqrt[2]{2}\sqrt{\epsilon}\chi\eta$ is lastened, not, as we are told by the Elymologicum Magninus, to the $\sqrt[2]{2}\chi\mu a$, but to the $\sqrt[2]{2}\eta\eta$. Secondly, Proclus in both his notes asserts that a plough is airroypes when the $\sqrt[2]{2}\eta\eta$ extends as far as the yake, that is to say

Spad, Iv. 76, 23 (ad. Schome) but the proof has nothing to do with ploughs.

Besied's allers as to the above does not prove that his plough was without a above able is considering only the wooden parts of the implement. There are in the Birtzel Hussian plough charms of the branes age from Cypres For Roman aboves — Lindensehmit, Atl will Acade, Forgest III, by 182

The handle Herlod calls simply age faires which perhaps amplies something more like the form shown is Fig 2 than the regular repeasing in the diagram.

Polina's sentence of \$6 a firsts supposerant home a biscompatible with the rest of file account which makes the view of these quite their There can be no doubt that successionable be read for fryes as was proposed by K. Veck-materi [Philologue 1866, p. 550). In the last whenever of Moschapalay's note, year to used for the whole pale (year + torologue): 44 the torologue does not using in all ploughe the note quite invalingable.

Pellier some to think that the best purion of the Papa was called aking

L said 8.4 reference for the form xequilibrium in Phila Mech

when there is no need to add an israsface's. According to the Elymologicam, however, it is so called when your and Elama are in one piece," and this seems to be the meaning of the scholiast to Apollonius, though the passage would not be intelligible without the help of the parallel passage in the Etymologicum. Some light is thrown on the origin of Proclas's divergence from the Eratosthenic tradition in these particulars by the monumental evidence which we have already considered.

First, as to the handle. We have seen that, in the earlier ploughs, ploughtail and pole tend on the whole to be distinct from each other, and are sometimes separated by a considerable space, but that in later times they tend to be close together and, in some Italian examples, spring one from the other instead of rising side by side from the stock. Proclas and Moscho pulus seem therefore, to be interpreting Hesiod by reference to a type of plough which was apparently unknown in Greece, and in this particular their

avidence may safely be rejected.

Secondly, as to the meaning of autoyros. The development of the plough which led to the uniting of pole and tail at the hinder end of the stock resulted as we have seen, in a reduction of the stock both in size and Whereas, in the earlier form, a plough might naturally be importance. thought of as a stock with two appendages, a becomes in the later a polewith two appendages, for the year, not the Exqua, is now the important part of the instrument. This change in the relative importance of the parts is true of the ordinary variety of Form IV., and it is especially conspicuous in the type of plough which Proclus has in mind, for there the tail springs, not from the stock at all, but from the pole (cf. Fig. 2 and Pl. XVII. 6) Now if a plough in which the stock is the most important member (as in Fig. 15), be called aeroyous, the epithet can easily be understood as predicating something of the yong in its relation to the Aupa, which is the main beam of the plough. But if it is said of a plough of Form IV that it is abroyous, 'has a natural yous,' then the adjective is naturally taken to refer only to the spins, for the gang is now the main beam, and the exput. which has become an appendage of the yons, drops out of sight and is not taken into consideration by those who seek to ascertain the meaning of the word acreyoos by looking at the plough in use in their own time.

It seems therefore probable that, where Proches and Moschopulus differ from the authorities with whom they are in the main in agreement, their dissension is due to the fact that they or their immediate authorities were thinking of a later form of plough, and attempting to fit Hesiod's description to it. The true meaning of aeroyoos is that given by the Ethmologican Magnum (presumably following Eratosthenes), and Hesiod's distinction between aeroyoos and approx is clearly borne out by the monuments, for it is the distinction we have already drawn between ploughs of Form II. (not excluding I.) and III.

M So also Schol, Rom K. 55%.

So Virgi quake of curves arrives amoning as a shall me, the curved year of Lacr. v. 933. vi. 1253. Ovid. Her. i 55

Emitathine p: 1772, 8, hope that the rearls decrees was carlier than the service, but that is marrly because House, does not meating the latter of p. 955, 57

B.—We come now to the second class of authorities, which is represented by Proclus, Tzetzes, and entries in Et. Magn. and Et. Gad. Here we are confronted with an entirely different interpretation of Hesiod, for we are told that γύην is the operative part of the plough to which the share is attached, στοβοεύς the pole, and έλυμα the central part where γύης and ίστοβοεύς are united.

Before we consider this explanation it may be well to observe that the opening words of this note of Proclass, your to Levouson you attor too accorpan, are out of place. They belong to the first interpretation which we have already discussed, and recor in Meschapulus's version of that explanation. They describe the your as the curved base of the pole; but here we are told that your is something quite different, and it is clear that the offending words have crept in by confusion in the two interpretations.

The new view put forward in these passages need not detain as long for its origin is clear; it is etymological and connects you with you have with sheer. The inventor of these etymologies, if he considered a real plough at all, probably had in his mind one which we should classify as a variety of Form IV. Our representations of that form are for the most part so small that it is impossible to make out the exact connection of the main beatos, but the Marian coins (Pl. XVII 15-17), the Arlon relief (Fig. 9), and the plough from Cod. Harl 603 (Fig. 13), as well as the earlier Talamone votive plough (Pl. XX. iii.), all have a sort of solid centre from which the three main timbers start, and it is perhaps a plough of some such form as these which suggested the interpretation.

So far as the interpretation of Hesiod is connermed, there can be no possible doubt that the first tradition is right and the second wrong. The first goes back to Eratosthenes, and describes accurately what the monumental evidence conclusively proves to have been the early form of Greek plough. The second describes a form (if indeed it can be said to describe a real form at all) which, in its essential features, is later, and it is supported by precarious etymologies. We need, therefore, have no hesitation in rejecting it.

Now that we have thus determined the form of Hesiod's plough, it remains only to add that the wood is selected for special qualities which fit it for the parts named. The giogs is to be apirines, says Hesiod. The bolin-oak is celebrated for the toughness of its timber, and it is on the curved part of the pale that the main strain falls when the plough is in use. The front part of the pole is to be of bay or poplar, the stock is to be of oak. Oak, as we are told by Theophrastus, resists rot better in earth or water; poplar when expessed to the air. As to lauret we are told by the same authority that though it rate readily, it is preserved against insects by its matural bitterness. When Pollux and Proclus (in his longer note) say that

[&]quot;The elymplogy of Dana is uncertain:

^{*} H.P. v. 1 2.

the icroSocis was fastined with pegs to the rios, they are following Hesind, it and the pegs are clearly to be discerned on the coms of Thrace and of Alexander, and in the peculiar Spanish plough on the coms of Obulco (Pl. XVII 5.0, 18). This, however, is not the only way in which the beams were joined, for some of the minimuments show them lashed together with ropes or though (Figs. 1, 3 and 6, Pl. XVII, 2).

II.

We may now turn to the passages which deal with the yoking of the oven to the plough. Here also we are confronted with a double tradition

A.—As representatives of the first tradition we have now only the Etymologicum Magnem, the scholisst to Apollonius, and Proclus; for Pollux, who was with them on the first passage, here changes sides. The view given by these authorities is that μέσαβα means the curved recesses of the yoke which fit the necks of the oxen. They do not say what ενδρυου means but Proclus, who, as before, gives both views without comment, appears to think that it is the yoke itself, for he paraphrases ενδρυου μεσάβων with the words του ζυγόν ἐν ἡ al γλυφαί. He held therefore that βοῶν ἐνδρυου ἐλκόντων μεσάβων meant of the oxen who draw the collared yoke.

The source of this interpretation of Leôpvov is unknown, but we have again the authority of Eratosthenes for the statement that μέσαβα means ζευγλαί and collateral evidence that this was the Alexandrian view. When Callimachus said μέσσαβα βοῦν ὑνοδύς. and Lycophron we used the phrase μεσσαβοῦν ὑνοδ ζευγλαίσε they clearly had this or some very similar interpretation of the word before them. On the view maintained by the rest of our nuthorities both phrases would be unintelligible.

B.—The second tradition, for which the main authorities are Pollux, Precius, Tretzes, and Moschopulus, is that by the word μέσαβα Hesiod means the thong by which the yoke was lashed to the pole. With regard to the meaning of ένδρυσε there is a difference of opinion. Pollux and Proclus state that it is a wesslen peg which fits a hole in the yoke and secures the end of the thong. Proclus, however, apparently observing that the words βοῶν ἔνδρυσε ἐλκόντων μεσάβων offer no reasonable meaning on this hypothesis. The gives as alternatives the meanings ζυγός, ἱστοβοεύς and ἔλυμα—Tretzes and Moschopulus are for ἡυμός οι ἱστοβοεύς. As to the construction, opinions are again divided. Moschopulus, like Proclus takes ἐλκόντων as agreeing with βοῶν, and paraphrases διὰ τοῦ μεσάβων ἐλκόντων. Tretzes takes μεσάβων ἐλκόντων to be a genitive absolute.

In this case Hesiod's real meaning is much more problematic since the monumental evidence gives little or no help. On the vases the profile of

Thesical's language is not quite clear and might refer also to the peg already mentioned, which fasters together stock and pole.

³⁰ Fr. 513.

^{= 617.} The sphous there say, at red fares

phose and quote the phrass from Callian has a His paraphrase rie spores emreadieses their a paras rie some home to nonsense if the partie intertal in the pake.

the oxen is given and it is impossible to distinguish how the yoke is attached. Nor do the bronzes or coins give us much assistance.

However, since Emissiblenes proves to have been well-informed on points where his evidence can be checked, we may, I think, accept his evidence here, and with the more confidence in that on no view of the construction and meaning of the passage does the mention of the thong which holds yoke and pule together seem appropriate. As to the construction it is natural to take έλειστων as agreeing with βοίω, for the dragging is done by the draught-animals rather than by a part of the plough. Μεσάβων income therefore, by the collars.

For the meaning of eropoor we are left to conjecture, for the main authorities of the Emisotheme tradition are silent. Proclus, in the section in which he follows them paraphrases $\zeta e \gamma \delta v$, but this may be merely due to his misunderstanding of the genitive $\rho e \sigma \delta \beta \omega v$; and since he suggests elsewhere $i\sigma v_0 \beta \delta e v$ and $\delta \lambda v \rho a$ —that is, any part of the plough except the tail and the $\gamma \delta \gamma v$ —he can hardly be trasted to guide as right. Since therefore we are reduced to guessing, I incline to guess that $\delta v \delta \rho v v v$ means either $i\sigma v \beta \delta v v$ or the whole pole composed of $i\sigma v \delta \delta v v$ and $\gamma \delta v v$. And I select this part of the plough rather than any other, not because it is recommended by Tzetzes and Mischopulus, but because it is the part most intimately connected with the collars and the application of the motive form and therefore more likely than the other parts to be mentioned here.

It remains to consider briefly the interpretation which we reject. The thing fastering yoke to pole certainly existed (it is called *Loyôleopes* in Homer (i) and it may sometimes have been secured by a peg in the yoke though there seems to be no evidence of this outside the passages we are considering. Why the words *logopour* and $\mu logopour$ about have been referred to these parts is uncertain, but the etymology given by Proclas and Sudas suggests that someone looked in $\mu logopour$ for a part which came between the exent of the yoke fasterings certainly answer to that description. Whether the substitution of forchead-straps for the yoke (as seen in Fig. 9) in line

On the Duyandtin group from Tanagra, the yoke is featened to the pole by a paging looked, and the yoke at the Talamann voite phough is arrached to the paid by a paging the Arcare bronze the pole passes through a role in the smarre of the yoke. On the coin of Ta Granchus (Pl. XXII, 13) may be seen the assessy mentioned by Pollar and the projections which pechaps seems to count the labiling.

[&]quot; As vides there P. 299, = 10. Productions to have read pardity with Trichinus, but. Dor gre. is no double correct.

Or. Cato R.R. Initial in aratrom sublugia fore, p. xvi, ; taniculum, p. yvil,

Tules the sulgmatic years of D 274 to

The emission in Prochas gold on 168.

erms to mean, 'if we read presides for meader then the fedome is meant, and this might be called accorded because II is between the oxen. This seems to imply secultar as an adjective frost according, an interpretation not given by any other communicator. Sunface gloss is similar, but regards the word as a minute it can hardly refer to the Hemodic passage.

[&]quot;On this subject Columella it 2 32 is worth quoting igitur in open bears are inneres bears commut une specieslus ingredi anter valilimes et clare unpitibue, se unnumenta corum labelarientus ingunque sucha aptun cernicibus insidat, loc comm genus innerese maximo probatum est, man illudi unod in quibundam prominciis asserpatur el corumes difigerar lugum feer repudiatur al committes qui praccepta rutious penerripactum.

contributed anything to the confusion must remain doubtful. Etymology, as we have seen, was responsible for errors in commentators of this group when dealing with the first Hesiodic passage, and it may well have musted them again here.

To etymology we may also ascribe Hesychius's gloss on the word iστοβοεύς, which I mention last because it falls outside the two clearly defined groups we have been discussing. Hesychius identifies the iστοβοεύς first with the yoke fastening (probably by confusion with some comment on aέσαβα) and secondly with some projecting part of the yoke or plough which resembled a iστος. He may have meant the peg mentioned by our scholiasts, or parhaps the Homeric iστωρ, which is a peg fastened in the pole, or possibly even with the apturned and of the pole itself which Homer calls πέξη, and Pollux κορώνη. These interpretations are certainly erroneous, but they furnish another illustration, if illustration be needed, of the conflusion which prevailed among grammarians as to the notatings of the words in our two passages.

III - Vigga

Virgil, though 1 100

190 Dignolius et quae sast duris serestibus arma, quis sino nee petnere surl ma surgere missos simuis et inflexi primum grane robur atatri tardaque Elemana marria nobantia planatia tribulaçue trabinospia et inique pandere esatri i

105 nirgua praetoma Calei nilispur supullex, arbutean crates of mystem unuma Incchi; omnis quan unulo anno memor promus reponus, si re digna manari dintro gloria rurra continue in ellula magna ut flexa donnam.

170 in lurim et curui formam accipit almus aratrihuis ab stupe pedes temo protentus in ecto, binac aurea, dapiler aptantur dentalia dorso, canditur et tilis ante ingo buis altaque fagus atinaque quae currus a lurgo torquest finos ; 175 et ausponsa focis explorat robora formas

174 atlanic quae: Vess al. 173 174 transpount Schrader.

Vario, L L v 19

Aratrum, quiel neuli termin cins turrina. Venuer, qued uomit no plus terram Dens, qued no mordetur turra. Supra id regula quie stat, etims: ale stando et in ce transnora regula manicula, qued manu bubalel tenetur, qui quasi tenes ser lutter homes, bura a bubus; alii hoc a curuo uruom appellant, aub ingo imidio cavum, qued bura urtrema mblila oppilatur, uccatur cons a cave ingune et mineutum ab tunctu.

Namina, p. 80, 10

Bura dicitur pars acuri posterior silveuruals. Vergilina ticargororum lib. L continuo in silum nugua ui dexa domatur in barira.

arque immerito, plus vaim quemit peralicullo et pretore comiri quam combus atque hocmodo tota mole surpenti totoque pombrenituatur, at illa retractis et eximpiais capilibus excruriantur segreque torres amumem partem lesi admedian nomere spiniant

I assume the text to be sound here though the alterntion of posterior to prior would remove the dissensions from our authorities. Yarro de Re Kustica lib. 1 [19 2].

at same fracta laira rellingunt nomerom in armo hano Vergilius burim nogavit...

Servine and Schol Dan:

170 IN BURIM in currenturum nam buris est currenturum aratri, dicimu quasi Bais otas quod un in similitudinem candac bonia offi burim curvaturum temonia, quas supra est et quest est infra scrinca dicant: buris ratio ut curvatur, aque igni dimestor, il est amburitur: unde et quae autu-uliter concentratur curvas, ita dicantur, Varra uit flotom burim (nilici ah arbet).

172 BINAE AURES duae quibus latior suiens efficitur. DUPLICI APTANTUR DENTALIA dentale set ligram, in que nomer inductior, duplici sutem domo aut lato, at [iii, 87] at duples agitur per limibos spira, aut re uera displici, enire

atrumque eminet latina : nam fure humamodi aunt nomeros in Italia.

174 STIVAQUE manica aratri, qua regiter, id sel pubrimiculum. Cienti in Scauriana a utima ipsa mecano hominas lequadantur, currus anteni dixit propter moreso promincias suas in que scatra habent robus, quibas inmintur.

170 femous a buring dier a horne. Thile

In an Expositi e

170 IN BURIM pars aratri, quae carnatur, baris dieta at aidetur Modasto a bastisme ign) caim dectuur ; quae Boor obpă quod sit ja siniditadinem camile bonis.

172 BINAT AURES quilms latior culcus officitur.

171 TEMO abromurathir.

172 DENTALIA fil est in quibas nomer induciur his nesitraliter, postanodina masculine ganero [c. 201] Durmu procedit arator.

174 STIVA aratri gubarmaculum: CURRUS ideo curros propter morein proutneise

mine in qua uratra habent rotas.

171 aircumrathir I am indebtest to Prot. Homeman for the discovery that this gloss is Irish. Mr. K. C. Quiggin, to whom I referred it, kindly tells me that urather is great of conthur, in plough. The meaning of the first part of the gloss sunner be determined and it is probably curring.

If we turn now to Virgil, it will be seen that the words whose meaningwe now have to determine are nomis, baris temo, naives, dentalia, stinn-Some of these however are not in dispute, names or names is the share temo the pole or part of it, naives the earth-beards which serve to widen the furrow. The dispute among the authorities centres upon baris and streat, and the exact meaning of dentalia remains uncertain, not because the authorities disagree but because their accounts are deficient in breidity and the archaeological evidence does not supplement them.

First then for larger and struct; and here, as in the commentators on Hestod, we find two views. The proragonists are Varro and Nomins, while

Servins seems to play the part of Proclus and give both views."

A.—According to Varro, stina is the tail of the plough in which is inserted a handle, manicula; buris (Varro uses the form bura) is the

of of Palindine I. 48. In reach simplicia.

In a plane regio permutit, aurite quibus possini contra atationes lettermi sata

eduare sales attolii: and see note 25 above, # His first interpretation is not explicit but protably gives the Nation slew.

pole, sometimes called armin.\(^{10}\) That is to say, $stina = 2\chi i \tau \lambda \eta$, $manipula = \chi i \rho o \lambda a \beta i s$, $bu\tau i s = \gamma i \eta s$.

B—According to Nonius, burn is the curved tail of the plough. Servius and the Brevis Expositio add little to this except that they are agreed that burns is ourved, and this we know already from Virgil, who recommends his farmer to bend it into the required shape while it is still

growing on the tree.;

Of these two authorities, Varro and Nonius, Varro is immensely the weightier. His etymology does not, it is true, inspire confidence, but he is a man of real learning and, what is more important, a practical farmer hand a student of agriculture, and he died only a few years before Virgil. If therefore Varro says that born is the pole of the plough, very serious rousins must be adduced before we can reject his testimony. And Varro has not merely stated his opinion that burn means pole; the word was clearly familiar to him and he has used it in that sense in his treatise upon husbandry, where he writes: 12

alia terra facilior aut difficilior est: aliam terram bones prossindere nisi magnis ciribus non possunt et suepe fracta bura relinquent comercin in armo.

For obviously the part of the plough which breaks and leaves the share in the furrow is (page Nomius) not the tail but the pole.

Thus even if it were merely a matter of weighing authorities we should I think, he compelled to reject the testimony of Nanius (on which some recent commentators rely) and accept Varros statement. There is however, further evidence to support Varro. Virgit's baris is curved, as we learn both from him and his commentators. Now we have several representations of ploughs of the first contury a.c. (Pl. XVII. 11-17) and in all of them there is only one curved timber, namely the pole. The tail, as in the Greek plough, is an upright post, and this fact should suffice to dispel any lingering projudices in favour of the Nonian interpretation.

In Virgil therefore buris is the pole, and it follows that buris+tence=
γύης+ἰστοβοεύς; it is worth remembering that buris is etymologically
connected with γύης. The only fact to be accounted for is the length of

eight feet which Virgil assigns to the tomo."

This may at first sight appear excessive; but the tento and baris together have to reach from a point beyond the voke to one some little distance behind the heels of the oxen. In the early Greak ploughs some considerable part of this distance is covered by the voys, and the isro/Socis was probably less than eight feet in length, but if Virgil's buris was smaller in proportion to the teno, eight feet cannot be considered excessive for the latter. According to Cato, the rems for a wagon should be 26 feet in

^{**} Schol. One distinguish form and around the only other evidence, a confined gloss of frame a.r. around does not help to decide the real meaning of the word around.

[&]quot; ER ET 11

^{11 2. 2. 1. 19. 1,} L.

Most the meaning of the words a steps may be I do not understand.

TYRE E. DOLL

length, that is, each rein 13 feet: and if we consider that in a plough the unit uses immediately above the base of the pole and that buris and temp together thus constitute practically the whole length of the instrument, it will be seen that eight feet is a reasonable dimension for the temp.

As to the Noman interpretation, it is of course impossible to ascertame in its source or its date but it looks as if it came from some form of plough in which the tail was curved and the pole straight. These characteristics, as we have seen, are not found in the numerous representations of ploughs which have survived from the first century n.c., but they do occur in cartain examples of later date? and it seems possible that a plough of this type may have led to Nomins's error.

Servius it may be noted, regards Virgil's plough as wheeled, a riew suggested by the difficult ourras of v 174. So far as interpretation goes, this suggestion helps very little, and it is in itself most improbable. The wheeled plough does not become common until many conturies after Virgil's death and it was according to Pliny a novelty in the first century a.o. Moresover the wheeled plough, in all examples known to me, has a straight pole and indeed the form almost demands this modification. Virgil's plough however, has like Hestod's, a curved pole.

The origin of these mistakes then sooms to me explicable enough. As to the dentalin, we have the evidence of Servins that it or they are the stock, and the same may be inferred from a passage of Columella who, when speaking of the weakness of small eattle, writes: 12

et ideo minoribus aratris molimutur, quia non naient [sc. bones] alte perfossa nonalium terga rescindere: quod cum sit, omnibus nirentibus plurimum confert, man penitus arais saleatis maiore incremento segetum arborimque loctus grandescunt, et in boc igitur a Celso differentia qui reformidans impensam quie scilicet largior est in ampliaribus acmentis, censet exiguis nomeribus et dentalibus terram subigere.

The word occurs further, in the singular, in an obscure possage of Pliny which may be transcribed here:

tomoruto plano genera culter meatur inflexus proviensum prosquam proscindatur terram secans firmrisque sulcis mestigia procescribens
incisuris quas resupinus in stando mordent nomer, alterum genus est
molgare restrati meris, tertium in solo facili, nec toto porrectum
dentali sed exigna cuspide in restro, latior hace quarto generi at
acutior in mucropem fastigata codemque gladio scindens solum et acis
laterum radices herbarum secans, non pridem inventum in Ractia
Galbae duas addere tab rotulas quod genus nocam planmorati, cuspieffigion, palae habet secant ita non nisi culta terra et fere mova
latitudo nomeris caespites nersat.

A primitive ecodem plough found in Juliand measures over all 240 m. but in this case the tail form somewhat backwards (S. Mollar, on c.A. p. 22 and Fig. 1).

HILL Figs 13 and 14

Till 2 231 of fairthm Pera 1 72 -al-

[&]quot; N.H. zvlii. 1711

In the large analogisty of the representations of ploughs which have come down to us the upper surface of the stock is invisible and the archaeological evidence does not enable us to obscidate Virgil's precise meaning. Perhaps we may believe Servius that the stock had a deep groove running down its centre so that the weight of the implement could be reduced without affecting the width of the resulting furrow. The stock would then have a V-shaped section and might well be described in the terms used by Virgil.

It appears from Pliny that in his time several varieties of ploughshare were in use and that the stock was subject to corresponding modifications. His language is, however, hardly clear enough to admit of our identifying the emistics of which he speaks. His culter is purhaps represented by the type of plough which we have seen on the coins of Marins (Pl. XVII. 15-17); his second genus nolgars, is clearly the common Gracco-Roman plough of Forms III and IV. His third and fourth varieties I do not venture to identify on the manuments, nor do I fully understand Pliny's meaning. His fifth variety, the Gallic wheeled plough, as has been said, does not appear on classical monuments, but the spade-like share of which Pliny speaks is still noticeable in the representation given in Fig. 14.

A. S. F. Cow.

KEY TO PLATE XVII.

Quems.

- I timen paste Serlin. 6195.
- 2. Sand : Berlin 4603.
- \$ Green Jappey : Brit. Mun. 187.
- 4. Said : Diff. Max 2003

Caran

- 5: Thuanan Chersoness (before Alexander) B.M. Cat. Three, p. 144, 29
- 6. Madellion of Commodus: B.M. of Cohon Mat. Sup. til. p. 252
- I. Centuripes (late-the-line): B.M. Cat. South, p. 36, 12
- 8. Covinth (\$25-220 a.c.) B.M. Cat. Covinth, p. 26, 250
- B: Abstanting : B.M.
- 10. Eine (201 cont a.c.) : H.M. Cat, Strip, p. 59, 7.
- 11. C. Vilitino Panna ic. n il 491 Grandus C. Eine. Rev. 1, 10 410, 3572.
- 12. 14 Surpio (Africa : 1. 10°; 17) (10° ii. p. 572. 10.
- 12. Th. Grandens (1 2 37); of hop 5301 4514.
- 14: C. Julius Carsar & mar 283; at IL 7: 17; 1862.
- 25-17, C. Marmo in they execute up 264, 2850, 2853, 2855.
- 18: Obales B. W. ef. Heles Moon, And & C. Espermo pp. 201 H. pl. Mill.
- IV. Tyro (Sept. Severne) : B.M. Cat. Phoenicia, p 200 300
- 26. Protomals (Novo) , rd. p. 183 18.
- 21. Alexandels (Antonious Prus); ib di mairie, p 123 1091;

ADDENISUAL -1 262. The number spector in Pl XVII, a room on the plough pale hold by Triphalemus on the Taxes Farmes (Forth angles, that Bearen, T. By., 18.).

[&]quot; Cato (R.E. 12137.) were to quak of the Copper (th. 25 31) recommond tors detachable shares and the summer ploughing xpheric Superior.

NOTES AND QUERIES ON ATHENIAN COINAGE AND FINANCE.

The following notes and queries have been mainly suggested by Professor Percy Gurdner's recent article on the Coinage of the Athenian Empire. They do not claim to do more than clucidate one or two small points with the aid of rather fuller use of epigraphical evidence than is to be found in his article, and at the same time raise other questions of secondary importance in the same connexion. If no solution is offered here to some of these queries I see no cause for regret for it may be found convenient by others to have here collected references to such inscriptions as seem to deserve further investigation from the standpoint of the numismatist. The inscriptions have mentioned belong both to the 5th and 4th centuries and so are not confined within the chronological limits of the Athenian Empire.

In the first place it may be as well to distinguish roughly the classes of Attic inscriptions in which munismatic evidence is found, in particular that for the eleculation of non-Athenian coins in the Athenian Empire. Tremarro-lists, which record the rescipt and transmission of sucred objects of value by their successive boards of curators, frequently, especially in the fourth century make mention of coins, giving their denomination and number. This ovidence as a rule, when it can be dated, can only supply a terminus red quem for the date of the issue of such coms; it cannot be used to establish whether such coms were current or not at the time of dedication, still less afterwards. More valuable in this direction are those inscriptions which record payments made in come other than Athonian and with these may be compled one series which clearly records that a body (the curators of the Parthenon building-operations) refrained from using some foreign currency which they had in hand throughout their period of office. From this second group clearly dated information may be obtained regarding the currency of non-Athenian coins in the Empire. There are moreover other Attie inscriptions making mention of gold coins, of which the purport is less certain, and in the absence of a definite date these can only be used with

^{**} J.H.S. xxxiii. (1913), pp. 167-188; I am also indichted to his article "The Gold Coinage of Axis heters Alexander the Great," Proc. Braich Academy, iii. (1908); and to his criticism and supportagement during the prejamition of these

postión.

² See 2 1 (0).

^{*} Smut examples appear below, le 28 1 (6,, 2 * See pp. 250, note 22, 286.

great caution. Finally from other uniscellaneous inscriptions we may glore evidence on such points as the relative value of gold and silver, and the exchange rates between coins of different communities; these are of especial interest when they can be dated, as they supplement on some points our knowledge from literary and numismatic sources. These are by no means all the classes of inscriptions which give help to the numismatist, but they are a rough indication of the headings under which may be conveniently divided such inscriptions as I propose to allude to in these notes. In view of their miscellaneous nature it seems preferable to follow a subject-order rather than a strictly chronological one.

1.—The Electrum and Gold Staters of Lampsons and Cazienis.

(a) The date of the electrina 'Lampascenes' may be placed on a rather more assurate basis than hitherto. The Attio asscription of g.c. 434, the occasion of which we have not yet been able to determine." in which stature of Latapsacus and Cyzicus are mentioned, is a fragment of the building-record of the Parthenon for that year: in it is recorded the carrying forward from the surplus of the provious year of 70 staters of Laurisaeus, and 27 staters and one helde of Cyziens. These are found in every year's record that is preserved, right from the beginning of the accounts, and thus were clearly never used in payment for any of the work.8 They are in hand at the beginning of the third year's work, and as apparently no work took place during the second year of the building," they were acquired during the first year (447/6). Thus, the terminus unte quant for the existence of these Lampsacenes may be pushed back to 447. The fact that they were never used in payment indicates that the commissioners did not regard them as in current circulation along with Athenian silver during these years. Whether they belong to a still earlier date and had definitely ceased to be current it is impossible to decide. The argument that they were not used because they were an odd sum may be dismissed, for within twenty years of the conclusion of the work on the Parthenon we find staters of Cyzinus, and an old sum at that, used in payment of Athenian στρατηγοί.

(b) That Cyzicene staters were used during the Peloponnesian war—at least after the peace of Nicias—for Athenian official payments to supplement the Attic currency is well known. In the inscription in recording the sums voted and paid to ατρατηγοί and for other purposes in the years 418 ff we find that Cyzicenes were used on three different occasions. (1) In 418/7 more than 4000 are paid to the trierarchs to Argos. (2) In 416/5 the

⁴ See pp. 275, mile 17, 282, note 24.

^{*} P. Cardner J.H.S. op. ob p. 155, 1 12.

See Disamoors william and convening extendion of the fragments of this recent, A.J. A.; avil. (1918), pp. 58 ff.

folest p. laville B.S.d. evt. p. 190; P.

Olddoor, og ett. p. 184, alludes apparently to these staters as 'In the tresurse liers of Athens.'

^{*} Diamoor, op. est. p. 68.

^{*} I.G. 1. 180 183 Dittoub, Sylv 87 = Hicks-Hill, 70.

J. L. 12, 13

last payment of the Attic year was an unknown number to Alcibiades and his colleagues for the Sicilian expedition.1 (3) In 415/4 a sum of 248 Cyricknes together with a large sum of Attie com to Telephonus.18 We have unfortunately no information of the relative value of Attic drachmal and Cyzicene staters on this occasion as the stone is broken nothing being preserved in 1 55 but time τούτον γέ(γ)ν[εται.]. It is however, perhaps worth noting that if we accept the equation suggested by Professor P. Gardner of one Cyzicene with 25 deschinal we obtain nearly, but not quite a round sum for the total payment.11 But there is no reason for regarding this as a proof of the truth of this equation, for the total need not have been a round sum. In the inscription of the same type relating to the expenditurn of sacred funds disbursed by the raplas ispor xpquator the Abqualas! in the years 410/9 and 407/8 n.c. there are no payments recorded except in Attic coin, but this seems exceptional, for in the year 411/10 we have more than one reference to transactions in staters, and again in 406/5. Here there are several points of interest. We have an allusion to Lampancene staters in the record of 411/10 " and a tantalizingly mutilated reference to their value in drachmat. If we indept the reading and restoration given in the Corpus " the most important passage runs thus [i. 185, H 30 ff.]: Alago aεενοί στατέρε: .. ΙΗΗΓΕΕ - - - άργυρη ον τούτον γίγνετα[1] XXXII --this is followed by a somewhat similar entry, though nothing is preserved of the adjective describing the second lot of grarepey. I think it is safe to assume that the latter are Cyzicenes, Kulewerol, and this word will form the end of 1.33. From the restoration of 1.38 we see that there were twentyone letters to each line, and on this basis we may proceed to attempt a faller restoration. In L 30 we begin with a vacant space, and after Audioaxceol grarepes there will be two spaces more to fill, and one at the beginning of L 31; thus there are three figures to insert before those preserved in 1, 31. and the minimum will be [FWH] giving a total of 907+: there are lifteen spaces to fill after the last &, and we may presume that the line was approximately full to the end, as appropriate begins a new line. As unlicated in the Corpus the gap most be filled with the word herrar followed by some numeral written out in full not represented by a symbol as in I. 28 below. where we have rerrapes. In this case (€ herral rerrapes) = 908 st., 4 bekts, will exactly fill the gap, and indeed any other entry would leave at least two theant spaces, e.g. [\$\xi \text{herror} \pi \end{arror} \pi \text{for in I 34 we see that the

" LQ. L 188, 1890 - Syll " EL

[&]quot; Li, 48, 49.

F 14, 54, 55

[&]quot;So we should probably read the AJAN on the atom, regarding the A as an error for A, with the direct of the Corpus; of Diller-berger's ride and he.

 ^{1) 11} T. 3787 dr. 41 abds - 1248 staters
 25 = 6200 dr. = 12 T. 3987 dr. 41 abs,
 which is but butle from them 124 Talenta. But

ses below, where there were evidence for a different propertion (Civil).

π J.O. L. 181, 185; (Suppl. (p. B)) 184, 185.

Here, as throughout these notes, I use buttenburger's system of itsness ription, e.g. s and and see in the generic singular if it is so written on the stone, and a for H, not for E, in mostiptions earlier than Employer architecture.

price is XXXIII (= 3500 +) drachmai only, which must be a number less than 4000, and this seems incredibly low for the silver value of ca. 908 staters, as it gives a proportion which cannot be far different from 4:1 as the relative values of stater and drachma.

But it is possible to achieve a less abnormal ratio in another way. We must abandon the authority of the Corpus and insert the 1 of yegieras at the end of 1 32 which is far from unlikely to be the case in a στοιχηδών inscription, and restore a figure in the first space of 1 33. If we restore 7 we obtain at once a minimum sum in silver of I T., 3500 dr. and consequently a ratio of ca. 101:1 instead of 4:1; this is less unreasonable than the other, but not likely to be correct. But if we restore if, and make the silver total 5 T., 3500 + dr., and restore the first figure of the staters as X and not P. giving them a total of co. 1408 we come much nearer to a likely ratio. Reading the first sum as 1408 st., 4 hekts, and filling our gap in 1, 32 with [FOXXXIII HHHPSES] which fits the space exactly, we find that we have exactly obtained the ratio of 24 1, for 14081 x 24 = 33,808 which is the number of drachmai restored in 1, 32. It is true that other sums between 500 and 1000 would easily fit into the gap filled as I suggest, but none of them is a multiple (of a reasonably simple type) either of the sum restored in II. 30, 31 or of any other possible restoration of that sum.

Let us now turn to the next entry; assuming that it begins [Kuzikevol] στατέρες we then have [..... άργύ] ριον τούτου γίγνεται ... ΙΔΤΤΤΧΧ. (then fifteen spaces) for grariper -- . The third, and final entry in this paragraph is thus also a sum in staters, restored in the Corpus -- evol Graveper: but we have already had those of Lampsucus and Cyzicus, and there is no other appropriate local adjective ending in - evol. Bearing in mindthat there was another class of staters, those of Phomea, current in Athens at this time." I would restore Coxais of without hesitation. This gives us nine spaces to fill with the end of the sum in drachmai in 1, 36, and we know from the figures remaining that the drachmai numbered something between 2000 and 5000, for if they had exceeded 5000 we would have had Is after the last T. The last three spaces at the end of the previous line require as a minimum [\$44], thus the total of the drachmai was at least 43 T. 2000 + dr. Assuming the correctness of the number of talents restored in 1.35 I made some experiments with possible combinations of figures to fill the gap in I 36, and out of a number of alternatives I found two, each divisible by 24, which fitted exactly. Moreover the corresponding number of staters in each case contained the same number of symbols, eight, which is the number required, for we have nine spaces, of which one is required for a stop, exactly as in 1.38. It is true that there is no spaced stop before apyopor in the first entry, but it is there innecessary as apyo-

It This is quite Turnedthis in view of the other exidence for their relative values.

Ct. P. Gardinor, 'The Gold Coinage of Ann.' Proc. Evil. Academy, iii. p. 18; in note 2 read.

ifor C.L.A. L. 196, 619 600) Ltr. (= C.L.A.) 1 196, il. 640, 660. For a completer tim of operaphical allocions to these staters of Phonaca — below, p. 332, Protection.

pure begins a new line (1.32). The number of staters may be either MIRHHHMPP ≈ 10.856 , of which the value in dischmal at 24:1 is $\left[\Delta\phi\phi\right]\left[\Delta TTTXX\left[\Pi^{\dagger}\Delta\Delta\Delta\Delta LHHF\right]\right]=43$ T. 2.544 dn., or MIRHHHHMPP = 10.955 of which the value is $\left[\Delta\phi\phi\right]\left[\Delta TTTXX\left[XX\Pi^{\dagger}HHHHMA\Delta\right]\right]=43$ T. 4920 dr. Between these there is no means of deciding, but granted the correctness of the assumptions one or other is presumably right. I do not present to claim that the links in the argument are not of a most tragilo nature, but at least it is possible to show that the adopted ratio of 24:1 for the staters of Lampsacus and Cyziaus to the Attie directions lits exactly with

the epigraphic requirements of this passage.

In the third passage however I see no way to a definite solution. that we have is [Donnie] a stateper ... he was test upos approprie robrov vieweras Afti, that is to say, a number of staters comprising nine symbols and four liekts of which the value in drachmai was some sum ending in 2, and I abol. The last figure before the units being a we can tell that the sum did not end in 02 or 52, but otherwise there is no clue The minimum figure for the staters is 10 (AAAPEEEE), for the silver 492 dr., I obol. What appears evident is that the ratio between them was not 24: I nor any round number, for in this case we could not have a smaller fraction of a drachma than two obols (ii) as a result of so multiplying (4 hekts) of a statur. The experiment of dividing every possible combination of figures from the drachmai entry in turn by every possible number of staters might altimately give us the correct ratio between them, but as it might equally leave us with several possible solutions it does not seem worth making, nor do I believe that there is a mathematical process which could facilitate the task. The ratio must however end in a fraction, probably either 1 or 1, according as the last unit of the sum in staters was odd or even

(c) Other evidence for the currency (though not, unfortunately, for the exchange-value) of Cyzicone staters at Athens is not scarce. One sailly fragmentary stone which mentions the circulation of Cyzicone as well as of Attic and 'Darie' gold is discussed and to some extent restored below. There seems to be no clase to its precise date, though it seems to fall within the period 405-380; I am inclined personally to part it nearer to the beginning than the end of this period, in view of the general type of its contents. One other inscription of a somewhat similar type, but even more fragmentary, makes mention of a very large number of staters, not less than 61,297 nor more than 63,549, apparently among official payments dated by prytames. Unfortunately we have no indication of the nature of these staters, which are possibly not even gold at all. We can only say that such a large sum, if it

L.G. ii. 843; bolon, p. 236
 J.G. I. Snapi p. 79, 191; this seems to belong to the same series as I. 134, 135, cl. i.
 Suppl. p. 23.

The figure preserved are

MX . PAAAAE

the with figure was cuthor (*) or (*).

consisted of electron states, would be equivalent at 24:1 to over a million and a balf of Attic deachmai (= 250 + Talonts), and must have belonged to some highly important transaction and moreover indicates a plentiful circulation of non-Attic coin.

For the circulation of the Cyzicene electrum stater in the fourth century among the Greek cities of the north coast of the Enxine an inscription from Olbia 3 may be cited with advantage. It sheds indirectly an interesting light on the problem raised in Demosthenes' speech against Phormio,2 namely, the value of the Cyzicene in Attic currency. In Olhia the value of the Cyzicene is officially fixed in these words, by resolution of the Boule and Demos (IL 23 ft): το δε χρυσίου πωλείν και ώνεισθ[αι, τω ν μεν στατήρα του Κυζικηνου (ένδεκ ά το ημιστατήρο, και μήτε άξιωτερών μή τε τιμιώτε ρου, το δ' άλλο χρυσίου το [έπισ]ημου άπαν και αργύριον το έπιση μου] modely ral wooday, in he had played meibour. It is regrettable that the exact figure for the value of the Cyzicene is not preserved, but in either easo the result is interesting for it gives us either 21 or 23 local drachmai of silver as the equivalent to the Cyzicene. Not only does the State fix the value of what was presumably the standard gold (or rather electrum) piece in use among the traders of the city, depriving them to this extent of the pleasure of bargaining over the money-changer's counter, but it expressly enacts that the purchasing value of all other cain, gold and sliver alike shall be arranged by bargaining. Thus the inscription is of interest as confirming the truth of the natural supposition that the multiplicity of com-standards and denominations then in use was the cause of such complications that a separate bargain on each occasion was the normal solution. May we regard it as indicating that apparently Olbia had, early in the fourth century B.C., a currency of silver stators of its own, which was hitherto not known to the numismatist Indeed, no silver come of Olbia are attributed to an earlier date than the third century B.C. and these apparently are on the lighter Agginetan standard If there were fourth century silver staters on the same standard, the Cyzicene would be equated to either 19545 × 101 or × 114 gmins (= 2041.72 or 2236.17), and these weights of silver represent just more than 30 and 33 Attie drachmai at 67 5 grains. Thus the divergence between 217 and 28 Attic drachmai as the value of the Cyzicene mentioned in the speech against Phormas would not represent the absolute extremes possible; but perhaps at Olbia the intrinsic value of the local silver currency was below the normal standard, and this is borne out by the impure silver of the didrachm of Olhia in the British Museum.18

M. Jaser, Or. Sept. Ponts Emplet 1, p. 21. Ro. 11 (= Syll.* 540; = Michel, Emplet 336). The first publimation by Machinaum, Hemili p. 373, 10 not satisfactory for restauctions of the text.

[&]quot; Cited by P. Gardner, J.H.s. tie w.

N. 138.

[&]quot;Or (Subsect) eq. (s. 10) or 11) stateon.

"His News." p. 272; cf. Phik. Antiles

Hausen. Nardyricchanizade, i. Pl. IX, 1, 18:

² As Professor Gardner has kmilly pointed out in a letter.

2.—Staters of Crocsus in an Attic Inscription.

The following inscribed fragment of which I took a copy and impression in the Epigraphical Museum at Athens in 1910 seems to be still impublished. I believe it to be a portion of the building record of the chryselephantine statue in the Parthenon and to belong to the lower part of the stole on which is engraved I.G. i. Suppl. 298; moreover it is or interest to the numismatist from its allusion in Il 6, 7 to staters of Crocsus, Kpoio coard post of the first time, to my knowledge, in a Crock inscription.

Fragment of Pentelic marble, complete only on L and behind: h. 20; br. 17: th. ca. 105 Letters 01 - 012 high, στοιχηδόν, but figures in margin not exactly in columns.

The attribution of this fragment to the stells containing i. Suppl. 298 is based on the following grounds. (1) The thickness and general appearance of the marble. (2) The similarity of the contents. (3) The fact that the fines begin apparently at an equal distance from the edge, though unfortunately the inscribed surface of the new fragment is destroyed by weathering for a space of about 025 from the left edge. It must however be noted that the lettering is not quite identical on both stones, and that the new fragment contains one more letter per line, excluding the figures in the margin, than the other. But these objections may be met satisfactorily by the suggestion that they are not from the record of the same year, as indeed is indicated by the contents, and that a new engraver may quite easily have inserted one more letter in each line as well as changing elightly the type of lettering:

The restoration of R. I. 3, and 6 seems beyond doubt, and thus the number of letters (14) in each line is certain, but unfortunately it is impossible to restore with certainty any other line. L. 2 was possibly tell

[&]quot; Note also that a similar flow is found in the headge of both stones.

blank after the verb coréde, as it would not be necessary to state the weight of silver when the purchase was made with that metal. L. 4 must have contained the beginning of the long sum, stating the weight of the gold purchased, which continues into l. 5. We have no clue to its restoration, and, supposing the line to be full we can only conjecture the minimum figures which could have stood here, namely [XXPHHRHP] = 2950 dr., which with the sum in l. 5 gives a minimum total of 2991 dr. The figures less from l. 5 are of less importance as the total could only have been something less than forty: for ninety-) five; here again the line may not have been full to the end. In l. 7 we have a minimum total of 110 states of Croesus with the certainty that the maximum was under 150; here again the line may not have been full. For the completion of l. 8, and the restoration of the mysterious letters OTE in l. 9 I have no suggestion, apart from the obvious one of vorter after τεμέ.

Of the figures in the margin representing the saues paid, we may be sure that the first group is to be read together, and that except in the last of the four lines there were four figures in each. The minimum would be [TTT]T[HH]HA A AAP | F|F|=4 T., 347 dr., 1 obol, but this is probably much too low, as we have seen that the minimum weight of gold purchased must have been nearly | T., which would cost not much less than 7 T. in silver. And, moreover, there is an indication that the last figure but one in the first line was not T but something higher, 4 rather than IT, as the floor of the hasta maches perceptibly lower than that of the apright of the T which follows it Thus we get at once a manimum here of | AAA T = 31 Talents. It is not worth while setting out all the alternatives which might stand here or in H. 4, 5,21 but a point which must be emphasized is the difficulty of establishing the price paid for gold on this occasion. We we that the price paid ends in 147 dr., I obol, and the weight of the gold ends in a figure between 41 and 45 or 91 and 95; and on the almost certain assumption that the ratio of gold to silver in these accounts was 14:1,11 when 147 dr., I obol, are divided by fourteen we do not get a result at all resembling the figures preserved from the weight of the gold. Even if we regard 41(+) or 91(+) as a round sum it cannot represent to of any combination of the figures in the margin, for they when so divided yield quite different results. In these erroumstances there is only one solution, as far as I can see, namely, to suppose that the sum in the margin contains the price of the silver from L 2 as well as that of the gold from II, 4 and 5. This is not unlikely, and involves two consequences: (1) that the remainder of

the new tragment contained the record of the purchase of all the remainder, which is highly unlikely, the maintenant liene would be untily 33 T., 4,000 (fr. par 37 T., 4,500 dr.)

⁼ As in A77, i. Suppl. 298.

if The excise is quite unsertain. We know that the total weight of gold on the matter was 40 talents (Timeya, th. 13), or 44. Philosherus, quoted by Schol, on Aristophanes, Panes, I. 605), of which the purchase of rather more than six and a quarter a aliented to in I. Suppl. 298, IL 14 ff.; if

E See Disamon's resulting and interpretation of I.G. I. Suppl. 298. II. 14 ff. in the light of an entry in the building record of the Partheson, A.J. A. avii (1918), p. 76.

1.2 was after all occupied with the weight of the silver purchased, σταθμότ being omitted; (2) that in I, 5 no figure is lost after F, and that we must complete the line THE TOWTON, to refer to both the gold and the silver This indeed involves the necessity of inserting an extra letter beyond the number halicated by the restored lines 1, 3, 6, but may be paralleled from 1. 15 of the previously known portion of the stele. As the figures in 1. 2 were perhaps also crowded it does not seem to be worth while offering a conjectural restoration.

Lil 6, 7, Here we have the record of the purchase of some Kpoleteror ατατέ ρες or stators of Crocsus, numbering between 110 and 150. As it is uncertain whether the line was full to the end, or even overcrowded, it does not seem worth while to cite possible restauations. More interesting but quite headable is the problem of the price paid for them in silver. If I am right in restoring the marginal sum so as to consist of four figures, and in regarding it as the price paid for these staters, the total here cannot be less than [7] TXX = 2 T. 2000 dr., which as the cost of more than 110 but less than 150 staturs gives us a price per stater of between 93 and 127 dr.44 If, however, we suppose that here no figure is lost before the T in the margin we find that for I T., 2000 dr. the corresponding range of price per stater lies between 53 and 72 dr. In any case the value of the states of Crossus in deadhmal is surprisingly high, as compared, for example, with that suggested above for the staters of Lampsacus and Cyzicus. But it must be remembered that unlike them it is of pure gold not electrum, and that it was no longer in circulation, and perhaps actually scarce, especially if, us is not unlikely, much of the issue had been melted down

What is known of the staters of Croesus from literary sources is soon. states. They are mentioned twice by Julius Pollus and once by Platurch and Hesychius: the passages are as follows. Pollux iii. 87: ephocupos éé nai ο Γυγάδας χρυσός και οι Κραίσειοι στατήρες. ix 14 ίσως δε όνομαται καταλόγοι προσήκουσεν οι Κροίσειοι στατήρες και Φιλίππειοι και Δαρακοί Platurch, Moralin 823 & (Tenhner ed.); Kpaiselov alperiorepov oraripov. The text of Hesyelius, s.c., is incomplete, and meaningless as it stands. Thus there is no doubt that in anniquity they were regarded (1) as struck by Cressus, (2) as highly valued. Moreover we have the evidence of the coins themselves as identified by numismatists." beyond reasonable doubt; and the fact that the gold of these staters is "lingularly pure" may help to account for their high reputation.

That those here mentioned were of gold, not olver, is certain from the context, but it is less cortain whether they are to be identified with those of

Where H was out on the stone dry spaces In the r. of the last letter in the this above It is not regarded by the editor of the Corpus as smills on the stone, but I see traces of it on a square which I sunto

ii 110 states at 125 27 descharat such most

^{14,000} dr., and 150 at 02 2 de.

[&]quot; Ct. Hill, Historical Greek Cribs, p. 18: No 7; P. Gardiny, 'Gold Connect of Axia,' op. 9 f. and references and los. P. Cardinor, on est, p. 10.

the heavier or the lighter standard. In view of the high price paid it is more likely that the heavier type is in question, that weighing 168 grains l=10.89 grammes. We have no evidence for the value of the stater of Crossus in Attic drachmal while it was still current, but it may be suggested that the heavier stater which stood in the relation of 4 :3 to the lighter one of 126 grains, was worth 32 dr., or a little more. My only ground for this view is that the lighter stater was only a shade lighter than the Darie, which at a later date was regarded as equivalent to 25 Attic drachmai. and may itself have been equated with 24; thus the heavier stater was perhaps regarded as equal to $24 \times 4 = 32$ dr.

We saw that the preferable restoration of the marginal aum gave 93.3 as the minimum value of these staters in diachmai in this inscription, and thus, to put it roughly, they will have been purchased at about three times their original value that is, if they were of the heavier standard. This may also be seen from a consideration of the relative values of gold and silver, as mentioned above. For 2 T., 2000 dr. (= 14,000 dr.) one should obtain 1000 dr. of gold (= 66,500 grains, regarding 66.5 grains as the average weight of the Attic drachma). This sum is represented by 395.83 staters at 168 grains, or roughly speaking three times the number recorded as purchased here.

For what purpose they were intended we cannot possibly say. If they were to be melted down it is surprising that the authorities paid about three times their intrinsic value for them, in addition to a purchase of raw gold. Their purity might enhance their value in the market to a small extent, but it is hard to believe that it increased it threefold. The problem must remain unsolved as far as I am concerned, but possibly a class is to be found in the letters OTE in the last line of the stone for which I have an explanation to offer. Might they belong to the entry of some further purchase, which together with the staters accounted for the price in the margin (

3.—The Dating of the Second Issue of Atthe Gold Colus.

I am not convinced that Professor Gardner has proved his case in the matter of the opigraphic evidence for the second issue of Atric gold which he would now attribute to 393 n.c., and as he quotes an inscription which I have discussed in the light of a new fragment mided by myself. I propose to re-examine briefly the inscriptions to which he refers. His contention that the second issue of Atric gold belongs to quite the early part of the fourth century, is based on the style of the coins themselves, where he follows Head in recognizing them as 'identical in style and fabric with the tetra-drachus issued from 393 onwards.' Such an argument I am not competent

P. Gantaur, J.H.S. xxxiii. (1918), p. 136.
 Assuming the continue number of 130.

strictly specking 149, 5 houts is the mercianos number.

³⁰ J.H.N. axelil. [1513], p. 180. In his

suring paper, The Gold Coungs of Ann. Profirst destill p. 25 in had followed kehace in diffing the second large to 329 ma., this being written before the appearance of the second affilian of Head's Historia Numerous.

to criticize, and the combined judgement of these two authorities must carry great weight; but I do not feel satisfied with the evidence from the inscriptions which Professor Caminor cites as furnishing a decisive proof and a further proof."

The first of these inscriptions is published in I.G. ii. 843; and consists of two imgments: the larger containing the remains of ten lines is practically complete on the right, the smaller, with the remains of four lines, is complete on the left. They clearly belong to the same stone, though there is no join, and apparently they are to be combined so that I. I of the lefthand fragment is continued on to 1.7 of the other, though the editor of the Corpus regards this as minus certum. Not having seen the stone myself I must be content with his copy, which there is no ground for districting. The important entry for our purpose is the letters ATHPAEATT in L S. which I believe to be rightly restored as [ar]aripac 'Arr[ikor] (o for ou). We have no certain clue to the length of any line, but a length of twentynine letters gives a satisfactory restoration for 1.7 and an approximately correct one for L.4. Thus I would restore IL 3 ff.: - - gold level end | This ----- πρηστανείας. [-- ηι τής πρυτανείας στ]ατήρας Αττ[είκοι - - - η]: την πρυταν[είας - - - | Κεφάλα(ιον το ξύμπαν αργ υρί(ο) και χρυσίο 'Αττικό, [χρυσίο (), Κυζι κηνό, χρυσίο :] Δαperso X(musis (1) MITTITHHIP . . | Xouris A refers. This is admittedly doubtful but will serve to show the fact that the stone contains a list of payments made in various correccies, and dated by days of the prytamies of at least one tribe, for the remains of II, I and 2, of which the latter seems to have contained the word [Ket] keyes (case !), belong to the record of the prytany prior to that mentioned in lt. 3, 4. The orthography and the use of the Ionia alphabet suggest the early part of the fourth century as the materni date for this macription, and there is no reason why it. should not be placed after 303 on these grounds. But its contents present a close resemblance to some of the latest payment-records of the fifth century, notably £6, a 190 ± 191, which belongs apparently to the Attic year 406,5. It could not be placed earlier than this, for the Ionic alphabet is used here without exception, but in the other inscription cited the orthography shows a stage of transition, I and O being sometimes used for E and O, but & not A for limbda. Thus we cannot be certain that the stone under discussion does not belong to one of the closing years of the fifth century, and if this were correct we should have to regard the Attio staters of 1. 4 as belonging to the first issue of gold, in 407/6. In view of this uncertainty I feel that this inscription, while proving that Attic staters were in existence and used for currency not later than the and of the first quarter of the fourth century does not prove that they were issued rather in 392 than in 407.

[&]quot; cop. six pp. 186, 187.

[&]quot; Challet this to - xufe for, the end of goodyears ; = {widexisors, participies? I do not like to make the shango, though it is not sory to reduce the remains of the word so it stance.

[&]quot;See Kuhler, in Herman Taxi. (1896), p. 148, No. 6, who adds a new fragment to, and combines and rentures those two parts p. cf. E. Mayer, Posselsances, ii, p. 189,

The second inscription, alluded to by Köhler, 42 can be dated with much more certainty, but as the tentative restoration [στατήρ]ας χρυσίο 'Αττι[εδ in Il. 24, 25 is almost certainly wrong, it furnishes no new evidence for the problem of the date of the first issue of Attio staters. Though it is impossible to restore exactly any line, we may see clearly that the last nine lines of side A contain a list of entries dated by days of the prytanics. ending with a total in the last two lines. The restoration demands a long line perhaps between seventy and eighty letters in length, which shows that this cannot belong to the same state as the inscription previously discussed. The correct restoration of the phrase in II. 24, 25 may be soon by comparison with | 18 From | 17 onwards we may restore somehow thus - - ox Me-Aitel, ent | [tips -- (los (numeral) -- ye upotaveroons, -, - ni tips upot arelas. χρυσία [Αττικό (?) - - , έπλ τῆς - ίδος (μιιπετα) - - ης πρετανευβόσης plas και τ [peakoutes της προτανείας χροσίο(*) --, -- υση τρίτες και 20 τρβιακοστέι της πηρυτανείας - - · έπι τηβς Αξαντίδος χρηναίου παρεδόθη (1) -- - επί της - - loos -- ης πρυτα | νευδσης πρίτη [ε[1] της πρυravelas - - - δ (or â) s eληφθη έχων δ | - - - - ηι της πρυτανέζας χροσία Αττι (κό - - - Κεφάλαιον το ξύμ σαν χρυσίο 'Α (ττικό !) - - | σταθμόν 25 XX | - - (wwat.) Thus the letters AE in L 24 are only the end of the word Tourneling, and therefore it is misleading to allude to this inscription in reference to staters of Attic gold though it gives interesting evidence of frequent transactions in Attic gold. The clue to the date is given by the earlier part of this side of the stone. In H. 2, 3, 4, 5 we have references to some silver objects, in the accessative singular, followed by he, which is is natural to restore as my: makny apyupav hu o četva avednes; in 1 6 - 6 vo & Kall - - well neer]. In 11. 7 and 14 we have ex to Hapterweer, " and in I II clearly the Examorapias are mentioned. This entry gives us the termenus ad quein for the date of the contents, for these officials consed to exist after the fall of Athens in 404," and the allusion to eliver objects, perhaps being removed from the Parthenon (cf. admpetent) in H. 8, 14 seems to hear on the inrouds made on the sacred treasure in Athens' desperate need of coin during the closing years of the war. In this connexton it seems to be a valuable supplement to the other evidence for this financial crisis notably to the last of the records of the traditiones of the objects in the Pronaes, I.G. i. 140, which records the handing over to the Hellenotamini of all the sacred objects, except one grown, which were contained in that treasury at the end of the year 407 6. Similarly L.C. i. 190 + 191 as restored by Köhler with his new fragment " seem to refer to a similar raid upon the objects in the Opisthedomes.

The contents of the other side (B) of I.G. ii. 5, 843 h have no value in connexion with the question of Attic gold currency, and seem to be either

[&]quot; Z f. N. 1838, p. 15; the stone is A.C.

^{**} Rostored in Il. 7, 8, preserved in L. 14.

[&]quot; Cf. the meatrum of thom in the first part, (105/1) of the famous down for the Samtana

LO u. I (ed. soc.), 1 30, where in the second past (10379), 1.07, corresponding psymmetra me to be made by the reader! Aristotic, AD, Pol. c. 10, 1, 18 and note in Sandy shifton.

[#] Herman, bet, val.

an earlier part, or a continuation, of these of side A; perhaps rather the former as the appearance of the total at the end of A, followed by an unmascribed space, suggests that it ends the year's accounts F

The third inscription is that to which I added a new fragment five years ago, LG, h. 665.48 Here I think that Professor Cardner has built too chiborate a structure on the basis of my conjectural restoration. As I have already pointed out, we have here, dedicated among sacred objects, apparently in the Purthenon, some dies and small anvils for striking coin, in a case consisting of an αλαβαστοθήκη. The exact entry runs; αλαβαστοθήκη Euking agraros (1). In he of gaparthees nat annonional elicip ois (1) robs χρυσος ε κοπτον, and in the corresponding passage in I.O. ii. 666, apparently belonging to the next year, we have nine spaces to fill, assuming the rest of the entry to be correctly restored, between ols and leaver, and here I suggested for xpvoor, instead of rove xpvoor or for xpvoors in H. 665.10 Professor Gardner, accepting the restoration, justly criticises my interpretation of xpuroi,50 pointing out that it should strictly mean staters, and not, es I thought, all denominations of gold issued with those implements, and would refer the striking of these statem to the second issue which he assigns to 303 n.c. His reason for this dating is that no staters of the first issue are known to exist, and this he treats as equivalent to the fact that none were struck. Here I would with all due deference to his authority, suggest that the fact that no coins of a certain denomination are now known is no sure proof that none were ever struck. The instance of the discovery of a whole new series, like the fifth century staters of Melos, " to which ho himself alludes should make us besitate before believing that our ignorance of the existence of a coin of a particular denomination is equivalent to saying that it never existed especially in a case where the smaller denominations of the issue in question are well known. But in any case I think that xovore, if the word is rightly restored in these inscriptions, must refer to the smaller denominations as well as to the staters, for it is unlikely that the dies for the former would not have been kept together and dedicated together with those of the staters. But the chief reason for connecting these dies with those of the curlier issue is the fact that they were dedicated among the sacred objects of Athena. There is every ground for supposing, and Professor Clarefuer himself invists, that the second gold assue, if it is rightly dated to 393, was struck in the onlinery way of currency; thus it would not be minted from sacred objects malted down for the purpose, and consequently

there would be no reason for consecrating the dies used in striking it. It is undeniable that the date of the inscription is probably later than 393, and cannot be later than 375, but failing some further discoveries in connexion

[&]quot;The resonablance of side it to the exceed of payments, under prytonics, in I.O. L 188, 1894 ("Chairent Marble") makes non attribute both stones to the menon perios.

^{*} J.H.S. axiz. (1909), pg. 172 ff.: Num.

[&]quot;Ann Oren, for, at. There is no doubt that sh governmented do squally well have, but it is one appear too short nor No. 665.

[&]quot; J.H.S. exciling all p. 187." " Op. all p. 122; His. Norm p. 186.

with these records we cannot hope to establish its date for certain. But it is equally true that there is nothing either in the contents, the orthography, or the lettering to prevent it being proved to be earlier than 393, in which case there would be no doubt of its allusion to the striking of the first gold issue.

Thus of the two inscriptions which Professor Gardner regards as proving the issue of Attic staters (and smaller denominations) of gold in 393. I think we must conclude that the first, in which Attic staters are expressly mentioned, is on the whole just as likely to be earlier as later than 393, and possibly earlier than 400; and that the other, where a conjectural restoration alludes to $\chi\rho\nu\sigma\sigma\delta$, refers more likely than not to the issue of 407,6 and moreover, that if the restoration $\chi\rho\nu\sigma\sigma\delta$ be accepted literally it can only mean that staters were struck on this occasion, as well as the other values which we already know. The third inscription, alluded to by Köhler only, belongs to about the year 405, and as it seems to make no reference to staters it does not bear on the question one way or the other. My conclusion then is that in the present state of our knowledge the evidence from these inscriptions—and I know or no others—cannot be used to support the data 393 for the issue of Attic gold coin and though the result is negative I do not think it is altogether without interest.

1.—The Position of Melos in 426-416.

Misunderstanding of an inscription has led Professor Percy Gardner 25 to a talse conclusion regarding the position of Melos under the Athenian Empire during the middle period of the Pelopomesian War. It is quite time that the island does not figure in the Attic Quota-lists as far as they are preserved during the thirty years beginning in 454 for which we have the quota recorded. He says but in the fists of 425 Of 88, 4 Melos is entered as paying a tribute of 15 falents, the same as Andres and Nazos M Ho then points out the inconsistency of this epigraphical evidence with the passages in Thuovoides to relating the unavailing attack on the island by Nicias in 426 (not, as he says, 427), and the fact that Moles had remained neutral up to the time of the second Athenian attack in 416. Few investigators, he says, will besitate to prefer the testimony of an official document to the secount of the Melian controversy in Thucydides one of the most rhetorical and the least trustworthy passages in his whole history. We may suppose that the people of Melos, in spite of their repulse of Nicias, found it impossible to remain outside the Athenian alliance, and came in in 425, to revolt again in 416, just before the Sicilian expedition. But the macription in question is not a fragment of the Quota-list of the your 425, of which indeed no fragments exist; it is part of the rates popon, the

[&]quot;Valuable illumestors of the arrangement of the fourth contact Traditions flering Socretain are to be found in Bannion's paper.

Where Man 1911, pp. 38 ft., but even over the

dasing of many of the fragments is uncertain. in J.H.S. exxiii (1913), pp. 158-5.

is Loc. jil.

^{16 (}il. 91 ; y. 8).

resolution empowering a new assessment throughout the Athenian Empire in that year. Under this as is well known not only was the existing assessment of nost of the States raised, in some cases doubled or even trebled, but several were now assessed for the first time. Among the latter was Melon and the first that its tribute was made equal to that of the larger islands of Andros and Naxos reflects Athenian indignation at its successful resistance to Nicias in 126. As for as we know Melos did not pay, and we must regard this persistent refusal to enter the Athenian Empire as the reason for the heavy displeasure which Athens exhibited towards her in 416. Thus Thuoydides is to be acquitted of the charge of inconsistency with an official document.

A problem which may with advantage be briefly discussed here is the reason why, on the assumption that Melos refused to pay her assessed tribute, Athens waited for practically ten years before taking steps to correct the island. Busolt is says that the circumstances which turned Athenian attention to Melos are unknown, but a partial explanation is offered by Professor Gardner, who points out that on the eve of the Sicilian expedition the Athenians would have a strong objection to allowing a hostile or even a neutral island in the rear of their great fleet. If we seek rather for a reason why they waited so long. I think we shall be able to grasp the problem more successfully.

The first attack on Mekss in 426-was no doubt partly slun to that aspect of the policy of Demosthenes which aimed at interfering with Peloponnesian trade in the direction of Egypt, 30 but we should add to this the consideration of military reasons as well. The subjugation of the island would deprive Sparts of a convenient station which would as a Dorism colony, be both useful and loyal in case of a contemplated descent on any island subjects of Athens. After their successful opposition to the attack of Nicias, the islanders were assessed at fifteen talents; and when they refined to pay the Athenians did not at once seek to corres them, but turned their attention to places nearer to and on the Pelopennesian coast namely Cythera Epidanrus Limers, and Thyreia. Their abstention from Molos was presumably due to an important event which happened in 425, namely the defeat of the Spartan floot and capture of the prisoners at Sphacteria. Sparta had lost her fleet, and as now she would neither need Melea as a naval base, nor be able to send to help it if attacked. Athens saw that the island was at her mercy as soon as she could send an adequate force against it. That she still refrained from doing so was due to her troops being more seriously employed elsewhere. Their failure at Dellum and at Amphipolis must, as Dr. Grandy points out," have discredified the war party, so we need and wonder that nothing was done against Melos before the peace of Nicins.

^{** /} G. | 37, Imgmont as Busida, Gr. 130, 150-5(65); iil. 7 p. 1116 | for Meles, p. 1120, 100 | 5.

F Op. rd. 1268; for the radier a polition, pp. 1062, 1063.

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[&]quot; Simply, The plate, and the Richery of

[&]quot;Thucyd, le. 54, 57,

After the peace Athens had at first good cause for leaving the island alone, for an attack on it would have violated the peace, and would have prejudiced Nicios' hopes of establishing friendly relations with Sparta. It was only when the breach with Sparta came, owing to the dominance of Alcibiades in Athenian affairs, that there was no reason now left for sparing Melos, and even then the expedition was postponed till after more than one force had been sent to re-establish the Athenian position in the north of the Aegean. We may now regard the coercion of Melos as a reasonable precaution in view of the Sicilian expedition, but the ruthless methods employed reflect a long pent-up rescitment against the island for its refusal to enter into subjection to Athens. Though Alcibiades was not one of the strategi in charge of the force we may regard him as to a large extent responsible for the expedition, and Plutarch's statement that he was responsible for the motion to put the male inhabitants to death may well be correct.

5. Notes on the Attie Quota-Lists.

The following corrections to the published texts of some of the later stones of this class are perhaps worth recording here, as, to the best of my

knowledge, they have not been printed elsewhere.

(1) In the stelle composed of the fragments I.G. i. 250, 261, i. Suppl. 272 d + 272 c as connected by Wilhelm, it is to be noted that the right-hand edge of the slab is preserved. In l. 2 of i. 250 the angraver having no room to complete his item on the face has written the last seven letters on

the right-hand edge of the stele, thus: MYPINAIOIP/ PAKYMEN. Similarly in L ā of i. Suppl. 272 d the reading is XEPPONE ≤101€, i.e. Xspponsaiois | (συντελές δοαι etc.) Cavaignae in discussing the stone seems to ignore the fact, stated in the Corputs, that the r. edge is complete (though no mention is made there of the letters on the edge of the stele), and restores Xsppone σο genitive singular, and in the next line ἀπέδοσαν [τὸμ φόρου]. But the N of the verb is under the N of Xερρονέσων in the line above, and thus there is only one space after it on the face of the stele as this is blank, and there are no letters carried over on to the right-hand edge in this line, the rubric clearly ends with the word ἀπέδοσαν, which has thus no object.

(2) In the stelle composed of I.G. i. 260, 202, + i. Suppl. 272 b_i^{cr} it is to be noted that in 272 b_i l. 6 the figure at the edge of the stone is ^m, not Γ_i and that in l.8 opposite the name Maδύτων is /l, the remains of the sign for 1 obol. Thus they paid in this year 421 0 a tribute of which the

^{*} Through r. 85; and f. 27, t. 180, t. 9 which mentions a payment made for an expedition to Thrace early in 415/7, otherwise unknown, cf. Differby, Syll 2 57, and note 3.

Thought v. 84, where the names Cleameder and Teisias agree with those given in t. 25 of the inscription mentioned in the H.S.—VOL XXXIV.

previous pote.

¹⁴ Afei8, c. 16.

[&]quot; Trkunden des attischen Helains in dar wiges des phil. Aist. Klein der hale, Akad. der Wissensch. Wien (April 28th, 1998), pp. 41 d.

of Op. off, p. zivil.

William, op. of.

sixtiath part ended in some fraction of a drachma. We know that the quota from their tribute was NFFER (8) dr.) prior to 440 n.c.* and $[\Delta\Delta\Delta]$ FFFR (33) dr.) in 438 n.c.,* but their other payments are not recorded except in the year 427/6 n.c. where $\Delta\Delta\Delta$ F - is I believe, rightly restored as 331 dr., in a fragment identified by myself,* and in 408/7 for 407/6) · Δ · , perhaps 31 dr.

(3) In the stells composed of LG, i. 263 a, 263 b, + i. Suppl. 272 a, 272 a, in the list of Carian States in 272 c, in l. 2 above [Γρν]εκίες are the remains of a sigma ζ, apparently the end of a short name of not more than five letters (l'lacos or Λέρος.) The letters are not arranged στοιχηδόι in this fragment, and though the ≤ was placed practically over the N in the line below it is possible that it was preceded by four letters and not three. If the latter was the case I see no means of restoring the word from any known mane.

A. M. WOODWARD,

POSTSCRIPT.

The following list of outries of come other than Attic in the Athenian 'Treasurerecords' of the first half of the 4th century s.c. is, I believe, complete, and as such may be useful. In passages whose restoration is less scream the references are suchosed in square brackets.

I Gold on Electrica.

Conicse: - Gold staters (number uncertain), L.G. m. 2, 650, I. 11.; [687, I. 6] Phisoner :- (a) 2 staters, L.G. in 2, 649, R. 8, 9; 651, R. 5, 6; 652 a, I. 42 s ii. 5, 652 b, R. 14, i5; ii. 2, 658, R. 2, 3; 661, L. 10.

- (b) 12 hoktm, immediately following (a) in the six imeriptions cited, and to these [I.G. ii. 2, 665 + J.H.S. xxix. (1999), p. 172, L. 7].
- (c) 1 linkte, 1.6; ii. 2, 619, 1, 18; 652 A, II, 44, 45; 661, II, 20, 21
- (d) 3 hektal, I.G. ii. 2, 660, 1, 44.(e) hektal, I.G. ii. 2, 666, 1, 16.

(f) Uncertain, L.G.n. 2, 675; 4, 10; (Pexol - is alone preserved).

(9) Uncorrection, I G. ii. 2, 704, 1. 10; [708, 1. 5; 700, 1. 5]; (χ[s]s[στ]ο[s]
 Φωκα[s]ii. is along preserved; dates apparently from after 350 h.c.;

Person Davies: - Unknown number, I.G. ii. 2, 661, 1, 41; (powies Angered) rose duce).

2. Surveil.

troine: -2 athlers, T.O. ii. 2, 032 v. 1, 20; [687, 1, 46].

Previous Shelida :- Eleven, I.G. ii. 2, 649; H. 10, 11; 651, 1, 7; 652 a, 1, 43; m. 5, 652 b, I. 15; [ii. 2, 658, 1, 2; 661, 1, 20].

Misselbinsonis.— Boreign Silver (Zenas) depopule, wie zun dierpidielen) weigebing 83 dr., 3 obole, I.G. H. 2, 698 H. H. 29, 30; J. H.S. zxiz. (1909), p. 187, 1–14.

A. M. W.

^{*} A.R. I. 238 (142 n.c.), no figure for their

arrier payments has entrived.

[□] M.S. J. 27, pp. 221, 223.

[&]quot; KO. l. 258 (6), ef. R.S.A. L.c. p. 283, "

SOME HELLENISTIC PORTRAITS.

I. PTOLEMY SOTER, the general of Alexander and founder of the Egyptian dynasty, is as well known to us numismatically as any figure in ancient history. His head appears not only on the coins of all his successors up to the time of the Roman conquest, but also on his own later issues, and therefore we have every reason to suppose that the portrait is a shiftful one. On this question of verisimilitude in ancient portraits there are of course great distinctions to be drawn not only between periods but also

between personages of ancient history.

Hellenistic portraits are, as a class, faithful renderings of nature, but we have still to make some reservations in comparing them with modern or with Roman likenesses. Idealism never died out of Greek art, and especially in the case or monarchs an official likeness is not always faithful in detail. This applies as much to coins as to statues or busts. Provided the coin showed an easily recognised type, there was no need to reproduce accidental details. There is a tendency in all coin-partraits to over-emphasise the distinguishing personal features and to omit the unnecessary accidentals. One might take as an instance Alexander Balas of Syria. The length of his nose and the size of his chin were the most marked features of his face, and they are reproduced on all his coins. But the exact contour of his nose was not remarkable, and it appears as aquilling on some coins and retrousse on others.

The come of Ptolemy Soter differ so much between the earliest and latest Egyptian issues that, but for the intervening links, the heads would hardly appear to be the same. This is due paraly to the diminishing skill of the die-cutters, but mainly to the fact that in all probability each new coin copied the last rather than went back to the original prototype. But there are certain common features in the coins of Soter which are absolutely unmistakable. (Fig. 1, No. 1.)

The first is the high forehead slightly bald in front, which forms a heavy projecting bar above the eyebrows; the second is the banch of hair in front of the ear; the third the very heavy fold of flesh over the outer eye-corners.

B.M. Cat. Sciencid Kings of Sprin, Pt. KVI., XVII.; Dellernok, Austra Portrais, Pt. 81, Nov. 22, 23.

rouleyars to spiror tar Brokenaker; Imboot Bhiner, Pertratkopis suf entition Manuer, Pl. L. No. 2.

^{*} B.M. Cat. The Pintensies . Sympus, Ta

causing a sharp angle in the profile of the brow, and the fourth the strong projection of mose and chin in front of the line of the mouth. Fifthly we might add the invariably wild hair, though that is common to many Hollenistic monarchs. These are the features emphasised in all the coins, while details as to the length or shape of the nose or the height of lip and chin, vary freely. It is these features which we must insist upon in any portrait claiming to represent Ptolemy Sorer.

A number of heads are candidates for the position, as is natural considering the great importance of the subject. Some may be immediately dismissed.

(a) Bronze bust in Naples, No. 5596, called also Ptolemy Alexander, Alexander the Great, Philip, and Lysimachus of Thrace.³ (Fig. 4, No. 4.) This head is too young for any of the known portraits of Soter, who did not assume the royal diadem till he was 62, and the lock of hair standing straight up on the forehead is a distinctive feature. The heavy neck and



Fig. L.—Read in Louver, with our-postering of (1) Proless Source, (2) Pullsoripute and Arbinos IL

double chin are unlike the Soter coins, but there is sufficient resemblance about forehead, nose, and mouth to suggest relationship. We shall return to this bust again.

(b) Bronze hust in Naples, No. 5590, now usually agreed upon as Selencus Nicator.

Since Visconti's suggestion of Soter for this bust, its identity with Sciences has practically been demonstrated. There is no resemblance to Ptolomy in any of the essential features.

Six, Rom Min 1804, p. 103; Recommend Horcadonam I., Pl. 69, 70; Consparetil and de Petra, Fella Erodanam, Pl. 1X. 3; Visconti, Ion. (From, iii. p. 256; Arndt Bruckmann, Fl. 91, 92; Wace, J.H.S. xxx. (1905), p. 90; Fielder, GR, and Remote Portratts, Pl. 69.

Hossbuch, New Mark 1999, p. 18; Comparetti and de Petra, Pilla Bessioneuse, Pl. XI., Visconti, ep. cir. iii. p. 270; Wolters, Ross Min. 1889, p. 82; Arnut-Brackmann, Pl. 101, 102; Wass, J. H. S. XXV (1905), p. 93; Hakler, 62; and Rom. Portrains, Pl. 68.

(c) Marble bust in Naples, No. 6158, also called Antiochus IV, and Soter Π^3

This also is a quite unwarrantable attribution. The bust shews a youth in the twenties, but he wears the diadem which Soter assumed when 62 years old. On the other hand there is considerable resemblance to Antiochus IV. Epiphanes, with whom the connexion is far more probable.

(il) Marble bast in Torlonia Palace.⁶ Compared by Arndi with c

(e) Head in Louvre! (Fig. 1.)

This head is of great importance, for it has recently been published again as Soter by Delbrück in his admirable little work Antike Proteins. It has also the authority of de Villefosse, Wolters, and Scheerburg, and thus is at present the accepted attribution. Mr. Waes is dissatisfied with the resemblance to the coins, but thinks it may be Soter in middle age. Now our only evidence for Soter's appearance is his coin-portrait, but one would have thought a comparison of the coins with the head was decisive at a glance. All the essential features are absent. The forehead has the heavy bar in front, which is common to most Hellemstic heads, but shews no trace of incipient haldness. On the contrary there is a fringe of short, thick locks. There is no accumulation of hair in front of the ear, and the arrangement on the head is not wild and loose, but tight and careful, rather like a lady's modern Marcel waves. These might be variants due to vagaries of fashion, but features do not change after a certain age, and we find here an absolutely straight eyebrow and a loose, rather projecting, thin-lipped month. The face

is heavy, fat, and smiable, with enormous goggle eyes, a rather small ness and chin, and has none of the fire and energy or the keen and rather cynical glance of the first of the Ptolemies. A different identification of this head will be suggested; for the moment we may dismiss it absolutely from the possible portraits of Soter.

(f) A recently acquired fragment in Copenhagen has met with some support of late, following its publication in Armit, especially as it comes from Egypt. (Fig. 2.) Its claim is based on the peculiar nose. But

this claim is based on the peculiar nose. But this nose, though paralleled in some of the later and more distorted coin types is so distinctive that,



FIG. 2.—HEAD IN NY CARLS. HERR, COPENHADER.

if correct, it would infallibly have been exaggerated on the coins. The coins of Soter, though they give him a heavy nose with a thick up, usually give

^{*} Comparetti and do Petra, op. cot. Pl. XXI. 4; Arndi-Bruckmann, Pl. 97, 98; Hekler, op. cit. Pl. 72 a.

Viscouti, Monuments del Muses Torlinda,

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Hallerick, Antike Parindia, Ph. 23; Wolters, Kom. Mith. 1889, p. 33, Ph. 8; Viscouth, Ph. 64 p. 5, d.

him a perfectly straight bridge and apart from the case it is difficult to find any point of resemblance. The cyclrow is quite straight in profile. The chin is heavy and fat, and does not show the clear-cut profile of the coins. There is no lock of hair in front of the car, nor is the point of the nose sufficiently drooping. The expression of the mouth is quite different Finally one may point out that, although the head comes from Egypt, there is no sign of the royal diadem, and therefore the field for identification is considerably widened, as the head need not belong to a royal personage at all.

The portrait of Ptolemy Soter remains, therefore, an unsolved problem. There are only two heads which appear to have any real claims to represent him. One is a east from a missing medallion, in the museum of Hildesheim showing an elderly, stern-featured man wearing the royal tiam. Unfortunately the head is full-face and difficult to compare with the coins. But the cast came from Egypt, and most of the features of the coin-portrait are present. The other is a very mutilated head found in Thera, and published by Hiller von Gartringen. So far as it can be tested it resembles the coins.





Fig. 3.—Hindrey over in Naples and four-posterior Proless Philadelphia and Adminos II.

Piolemy Philadelphus.

The field is held by Six and Rossbach's identification of the bronze bust in Naples, No. 5600 in (Fig. 3). With this we can compare a large series of double coin-portraits of Philadelphus and his wife Arsince, some of which were issued in his lifetime, some under his successor Euergetes, and some later still. We may point out a superficial similarity in the fringe and the straight line of forchead and nose. There are no other points of

Delhrick, ep. so. Pl. 60, No. 8: Rubensohn, Hill-mistrator Sitterperat, p. 84, Pl. VI 30.

Hiller ross Gaermagen, There, i. p. 245,

W Comparetti and de Peins, Pl. IX; 4;

Siz, £5... Mill. 1993, p. 217; Rominich, Neus Jakeb 1899, p. 50; Arnell Benckmann, Pl. 93, 94; Wars, J.H.S. xxv. (1905), p. 91, Pl. VIII 1; Hekler, sp. sti. Pl. 72 h.

³¹ B.M. Cht. The Pintenties, Pl. VII.

resemblance. The differentiae of the coin are the huge round eye the heavy hanging chin, the small mouth, and the peculiar hair. Particular attention must be paid to the latter, as Philadelphus is the only one of the Prolamaic kings to wear such a confuere on his coins. We have every reason then, for supposing it an individual fad of his. The hair of the Nuples bust is quite different. It lies that on the head in natural broad locks a treatment resembling some Lysippic statues. Philadelphus, on the other hand, wears an elaborate arrangement of waves of quite a different appearance. Even if the confluer were a passing fashion and the heavier chin a penalty of old age, we must insist on the round eye of the second Prolemy, which disqualifies the Naples bust. In general its air of youth and somewhat ascetic vigour compares hadly with the bon vicinal Philadelphus.



There is, however, one head which displays all the characteristics of the coins. This is the Louvre head already disqualified as Soter. (Fig. 1.) Here, and here only, we find on com and bust alike artificially rolled hair, a short, thick fringe unnaturally large round eyes, a heavy banging chin and a small nose. The likeness is so exact between coin and bust that it is difficult to point to any discrepancies at all. The chin of the bust is perhaps rather firmer, but that is the extent of the difference. The back of the head and neck and the tip of the nose are, of course, restorations.

3. Ptolemy Euergetes (Fig. 4) is known to us from two series of coinportraits, one from Egypt, a one from Asia Minor and Cyprus. The question of his likeness is complicated by the fact that there is practically no resemblance between the two. In dealing with a distinction of this kind

¹¹ B.M. Cat. The Philomics, Pl. XII

H. M. Car. 19. IX. Sverence, Neubouere vie Brokepales, iii. P. 27.

Syorones would have us choose the Egyptian portrait which he calls the official type, and reject the foreign type as more funciful.

Such an argument appears very hazardous. It is far more necessary to provide a distinctive likeness for foreigners, so that they can easily recognise the coin, than for one's own country where the coin is more familiar. Just as our stamp engravers have always kept a free hand in the designs for colonial stamps, while clinging to very conservative designs at home, so the Egyptian die sinkers always tended to produce a more or less hieratic type complicated with insignia of various kinds at home, while the hest likeness appeared abroad. Now the foreign coins of Engrgetes show a very distinctive head (Nos 1 and 2); the Egyptian coins a head of purely formal ideal appearance. In such circumstances we must take the foreign types as the basis for our investigations.

There are no strongly supported portraits of Euergetes at present, and only three can be brought forward as bearing any resemblance to the coin type.

(a) The first is the bronze bust in Naples, No. 5596, which has already had so many vicissitudes (No. 4). The diadem proclaims it one of the Diadochi, and its style puts it in the second half of the third century. It has sufficient resemblance to the Ptolemies to have been labelled Soter, and is almost certainly a member of that house. There are the following points of resemblance to the coin. The head is highest exactly in the centre of the skull, and there is not much occiput; the neck is fleshy and thick; the upper lip is very short; the chin is heavy; the mouth is strong and straight with a tendency to smile; the nose is heavy and thick with a big tip and a bend in the middle; the eye is strong and keen with a heavy bar at the outer corners, in which it resembles Soter rather than Philadelphus; the hair is rough and untidy with an upstanding lock above the forehead, and it bunches out on the mape of the nick.

If we could connect the Naples bust with Egypt, we should have, I think, a strong case for Ptolemy III. The two other heads provide that connexion.

(b) M. Svorones of Athens has in his possession the east of a small medallion found in Egypt and now lost. I believe it to present the same type as coin and bust. It appears however, to have no diadem. This is not necessarily fatal to its connexion with the others, for, since it is clearly younger in age, it may represent Energetes before he came to the throne. The thick neck and hair with its prominent forehead lock and bunch on the mape of the neck are similar; so are the thick ness, heavy chin, and incipient smile. The profile is rather more hatchet shaped, and the eyebrow is straighter. As regards the latter point, however, it must be observed that the eye is much less in profile, and consequently would have to be medified in this particular. Without feeling quite convinced about this

medallion, I think there is some ground for connecting it with the other two types.

(c) In Copenhagen there is a fine Egyptian basalt head of a Hellemstic prince " (No. 3), which appears to belong to the same type as these heads, although its character is very much modified by its hisratic appearance. Still a certain number of individual characteristics are permitted to appear. One is the head in the nose which resembles the coins of Energetes. On the other hand the bend in the eyebrow line is less clearly shewn. The face is more hatchet-shaped than the Naples bronze, though in this respect it compares with the medallion. The hair is neater, but the upstanding lock on the forehead is a valuable point of similarity. I am inclined to select the nose and the hair as Euergetes most salient features, and therefore some importance must be given to this head for its obvious insistence on an unideal noseform. Further points of interest are the very short upper lip and the full cheeks. Our difficulties in dealing with a head of this type are very great, because of the strongly conventional type of Egyptian Ptolemaic heads. But this is a Ptolemy and it is certainly not Ptolemy L, H., IV, V, or VI whose coin-portraits are well known to us. Its strength and vigour, compared with what we know of the character of the later Ptolemies tell strongly in favour of the great Energetes, the conqueror of Asia.

4. Ptolemy IV. Philopator (Figs. 5 and 6.)

The fourth Ptolemy is a monarch whose come present us with a face as distinctive and individual as that of Ptolemy I. From them we can summarise the physiognomy of this first of the degenerate Ptolemies as follows:—The head is round, the cheeks fat, and the chin slightly underhanging. The hair is arranged in close flat carls of almost negroid type. The angle of crown and forchead is sharp, and the forchead is so vertical as to give to the front of the face an almost perpendicular profile except for the nose which projects strongly and is decidedly retronsse. The nose is the point seized upon by the die-sinker as characteristic, and is therefore, on the principle suggested earlier, liable to be exaggerated in the coins. We may further notice an eye widely opened but sharply angular at the corners—not round like that of Philadelphus—and finally slight whiskers.

It is possible to recognise these distinctive marks in a head in Vienna (Fig. 5) now labelled as an athlete, which came from Ephesus, a town in Ptolemy Philopator's dominions, but reconquered by Syria in 197 R.C. The diadom is not that of an athlete nor is it quite the ordinary flat monarch's type; it might conceivably be that of a priest. But this thicker type of fillet is not unusual for royalties, especially no doubt where they are ipso facto priests like the Egyptian monarchs. Similar Walshinade for instance appear on

p. 62, Pl. VIII. 0

⁴¹ Armit. La Olyptathapus NysCarlsberg, Pl.

³⁰ B.M. Cat The Philomics, Pl. XIV XV.; Symonos, op. off. Imboat Blumer, op. off.

² I am indebted to Professor Schrader for permusion to publish this head,

coins bearing portraits of Selencius. The style of the head is third-century, and our choice is practically limited to Selencid, Ptolemaic, or Attailed dynasts. It does not bear the slightest resemblance to any of the earlier Selencids nor to any of the Attailed sovereigns, whose enin-portraits we possess, viz., Philetaires, Attains, and Eumenes II. We may therefore sum up the external circumstances as far as we are able as pointing to a Ptolemy, and we can confidently exclude from the discussion the three with whom we have already dealt.

For a comparison with the coins of Philopator the loss of the end of the nose is most unfortunate, since this is the most distinguishing feature of Ptolemy's face, but there is such a remarkable correspondence in all the existing grounds for comparison that the case is strong enough even without this final proof. Thus we find the same round head, the same flat early hair, the same thick fringe and light whiskers. The angle of the forehead too gives to the head a straight facial profile. The check shows the same fainess, and the profile of the eye and the month are practically identical.







FIG. 5.—Product IV. (PHILOPATHO).

The lip-corners turn down with just the same semi-succring expression, and the wide-opened eyes have markedly angular corners. There are only two divergences: the under-chin is not so heavy—a fact easily explained by the youth of the head—and the forehead shews a larger apparent budge above the nose. It is only apparent, because a glance at the full-face serves to shew that the excressence in profile is not a real budge of the frontal sinus, but two bony projections above the inner eye-corners separated by a deep cleft. Now this is a very distinctive feature and it is most markedly compliasised in the coin, though in a different way. The swelling of the bone is shewn, but instead of projecting forward it projects more addways, and so these not interfere with the line of the profile. The artist is thus enabled to put more emphasis on the nose. It may be argued also that the strong resemblance of the low flat nostril and the identical shape of the upper lip shew that the original nose of the bust was retroused.

rr Bellevick, op od PL 61, Nov. 15, 16 ; E.M. Cat. Myric, 17, XXIII. No. 12,

There is already one sculptured head widely accepted as Ptolemy IV. the head identified by Watzinger 10 in the British Museum relief by

Archelass of Priene known as the Apothersis of Homer. (Fig. 6.)

This head occurs in the lower left hand corner of the relief on a symbolic figure called Xpôpos which is visible behind a symbolic female figure called Okcoppen. The two figures are engaged in crowning Homer who sits on a throne before them between his two children Their and Ocoacela. The heads of the two figures certainly look more like portraits than ideal heads, and the male head wears the royal tiars. This caused Watzinger after a comparison with the coins to label him Prolemy IV, and the female figure his wife the third Arsinos.

This attribution I hold to be erroneous on the following grounds. The male head on the relief has a nose which makes a perfectly straight line with his forehead, and thus fails to conform to the most distinctive feature of Ptolemy Philopator. He seems further to have a heavier chin and rounder



FIG. 6.—DERAIL OF HERSEF BY ADORDED OF PRINTE, WITH COLUMN CONTRAITS OF (1) PHILOPATON, (2) ASSISTED III., (3) PHILADELERICA AND ADDRESS II., (4) ASSISTED II.

eye than the coin-portraits. The female figure wears a veil which is typical of the wives of Philadelphus and Energetes, but is only found on the coins of Arsinoe III. where she is definitely imitating Arsinoe III, the wife of Philadelphus. The length of the face and the nose correspond better with the earlier Arsinoe than with the later, who had a somewhat heavy and hatchet-shaped profile. On the other hand the male head corresponds very closely with the head of Ptolemy Philadelphus, and the crisscress cutting of the hair, though it may seem at first closer to the conferre of Philopator, is a quite legitimate rendering, considering the hasty character of the curving, of the wavy hair-fashion of Philadelphus.

On a priors grounds it is true that Ptolemy Philopator, though not a monarch of very good reputation, is connected with Homer by the reference

[&]quot; Waternger, 6510 Wittelalimmer Fodprogramme, 1903.

Systema, sp. 42.

in Action V. H. xiii. 22 to a temple declicated by him to the poet. This is certainly reasonable ground for finding his portrait on this Apotheosis. But I hope to shew elsewhere that this relief belongs to a date much later than the reign of Philopator. On the other hand Ptolomy Philadelphus was the most famous of the great Hellenistic patrons of Literature, and to him was primarily due the patronage of the Homeric studies of the Museum of Alexandria. His services to Homeric study render the pertrait of himself and his wife most suitable to this allegorical scene. To Philadelphus and Arsinoe I, far more justifiably than to Philopator and Arsinoe II, belong the epithets Xphros and Oleovalry, and their two heads in juxtaposition formed the design of numerous issues of Egyptian coins.

5. Attalus Lof Pergamon. (Figs. 7 and 8.)

The coins of the Attalids are commonly said to bear in every case but one the head of Philetairos, the founder of the house, the exception being a single issue with the head of Eumenes II. Mr. Wace however published in the Journal International & Archéologie Numismetique for 1903 a



FIG 7. -ATTAIND I. OF PREGAMON.

tetradrachm of Pergamon (Fig. 7, No. 3) with a head on the obverse of a distinctly different type from the well-known Philetairos head (Fig. 7, No. 1). His arguments failed to secure recognition, though the differences seem to me patent. The head is higher and less deep than the Philetairos head, the neck is thinner and the chin lighter, the eye larger, more open, and more intense. The hip-corners droop more, and do not show the projection of the chin typical of the founder of the dynasty. The expression is far more serious and severe. One should observe too that one coin has a thin bunch of hair on the mape of the neck, the other none. The coin belongs to the end of the reign of Attalas I., and is just carrier than the personal issue of Eumenes II. It therefore talls between the Philetairos and the Eumenes issue, and would suit Attalas I., the intervening monarch. Coming as it does after the final establishment of the independence of the Pergamene kingdom it might well bear a portrait of the great king who had brought that about, Attalas I., conqueror of the Gants. The marble head in Naples once labelled as Attalas

and Aratus is a purely arbitrary suggestion. The marble appears to be Pergamene, but there is no royal diadem, and the sword-belt suggests a general,

Since the publication of Mr. Wate's article, a head has been found at Pergamon and transferred to the Museum of Berlin, which shows a Hellenistic monarch of the earlier Hellenistic period. This has been published as Attalus by Delbrück somewhat tentatively (Fig. 7, No. 2; Fig. 8, No. 1.) ¹² He appears to regard it as more than dubious whether it is not really a Seleucus owing to its resemblances to the Naples Seleucus bust. There may be a certain resemblance in the profile of these heads, but this is very largely due to the later addition of a Seleucud coiffure to the originally short-haired Pergamene head, shown in Figs. 7 and 8, without the later addition. In reality Seleucus' head is very long and rises at the back; the Pergamene head is short and highest in the centre. The eyes of Seleucus are short and close together; those of the Pergamene head large and wide apart. But the distinctive features of the head of Seleucus are the heavy vertical wrinkles running from nostril to chin. These are the real evidence for labelling the Naples









FIRE S .- ATTAINS I. OF PRINTA WON.

bronze Sciences at all, since in other respects the resemblance to the coins of Sciences is hardly conclusive. The Pergamene head shows no trace of these wrinkles, and will not bear for a moment comparison with the Sciences coins. If it is not Sciences, its date and finding-place point irresistibly to Attalus, and it is therefore of considerable interest to compare it with the possible Attalid portmits on the coins. Now this head could not be for a moment confused with the typical heads of Philataires. Its broad forehead and slight chin hear no resemblance to the recoding how and jutting jaw of the first of the Attalids, but its resemblance to the coin published by Waco is immediately apparent. The profile with its remarkable swelling of the base of the forehead, its nearly vertical nose and down-turned month, slight chin and well-opened heavily-shadowed eye, are exactly reproduced on the coin. Although the hair and twisted wreath of the coin resemble Philetairos rather

²² Gerhard End Panofka, Neupole Aut. Bulden, No. 579; Armit Bruckmann, Pl. 199, 110; v. Bienkowski, Dernielbenges der Gellier.

p. 25, Figs. 39, 40; Wass, J.H.S. sav. 1905, Ph. X. 2; Hekler, op. cil. Ph. 78 A.

^{&#}x27;E op, at Pl. 27, pp xmrni-xl.

than the Pergamene head, it is much easier to explain these differences by assimilation with the earlier types than to accept the wholly divergent head as a variant of the features of Philemires. The head too shows the same

distinctive bunch of hair on the maps of the neck,

The coin and the Pergamene head thus appear to represent indubitably. the same personage, who in that case can be no other than Attalns I. I can also propose a third portrait of Attalus in a youthful head from the National Museum in Athens, published by Arndt as a young Roman of Julie Claudian period.2 (Fig. 8, No. 2.) But the head has not the slightest resemblance to any Roman type. It is Greek and strongly affected by Scopaic characteristics. But it is not ideal. The hair, the double wrinkle on the forehead, and the very individual mouth and cheeks leave us convinced of a portrait. The two views of this head, when compared with the original form of the Porgamene head, display the closest identity in detail combined with one most striking difference, The Athens head is that of a young man well under thirty, the Pergameneat least twenty-five years older. It will be noticed that the Attic head has no diadom, and therefore can hardly represent a reigning prince. Attalus came to the throne at the age of twenty-seven, and did not assume the roral title and diadem for a year or two later, after his defeat of the Gauls. His close connexion with Athens renders an earlier dedicated pertrait of him in that city easily feasible. A detailed comparison of the two heads shows a remarkable similarity in the very individual treatment of the forehead with its double wrinkle and heavy bulge over the mose combined with a thick swelling at the onter eye-corners. Eye, nose, mouth, and chin are the same except for the greater firmness brought by age to the lips; a greater fleshiness of the underchin and a heavier, sterner sinking of the eye. The head shape is the same especially the profile of the back of the head. The cars show the same projection of the top, looked at from the front, and the thick dark locks of hair are not dissimilar. The younger head shows softer cheeks, lips, and eyes, and thus gives a very different first impression, but the resemblances in detail make the identity of the subjects highly probable.

6. Eumenes II. of Pergamon. (Fig. 9.)

Eumenes II. of Pergamon is known to us from a very badly preserved coin in the Brutsh Museum.²⁸ (No. 2.) His facial type is nearer to the receding forehead and jutting jaw of Philetairos than to his father's. The head is long and high at the back; the hair is in rather disordered carls, with slight whiskers in front of the cars; the ear lies back, and the face is hatchet-shaped with a receding forehead and a long, rather Semitic nose. The corners of the lips are tucked in, and the jaw projects strongly coming in almost a straight line from car to chin and ending, one would say, in a point. A head in the Roman Magazzino Communate²⁵ reproduces these features fairly obsely (No. 3). Unfortunately the nose, which would clinch the matter here as in

²² Acrolt-Benckmann, PL 599, 460.

v. Emnkowski, Darridinapen der Gallier, pp. 24, 25, Figs. 25-38.

the case of Ptolomy IV. is broken, and restored in modern times. The general character of this head in shape, angle of setting, in hair, profile, and especially in the strong pointed jaw, immediately suggests a connexion with the coin. It shows the same projection of the occiput, the same reacting forehead, the same mouth with strong dimples at the corners of the lips. The head was found in Rome, but it bears considerable general resemblance to the Pergamene statues of Gauls dedicated by Attalus. Bienkowski has for that reason associated it with the dedication of Analus in his recent work. Die Gallier in der griechischen Kunst, and described it as a Greek warrior. The absence of the diadem would seem at first to tell against an identification with Eumenes, but it must be remembered that Eumenes was probably well over thirty when he came to the throne. His father died at the age of seventy-two, and he was the oldest san, while the Roman head is that of a fairly young man. Though he is quite unlike his father, there is sufficient resemblance between this head and the normal type of Philetairos, especially about forehead,



eye, mouth, and chin, to suggest a family relationship, and thus far to support the claims of the head to represent Eumenes.

No. 3 is a Roman head in the possession of Miss Talbot of Margam, S. Wales, which has always been connected with the Pergamene Gauls, though Bienkowski first pointed out its identity with the Roman head. The head is not quite a replica, but is undoubtedly the same person. In this case also the nose is restored. It is difficult, however, to agree with Bienkowski's suggestion that the heads are merely Greek warriors for the type is a strongly individual one; the peculiar structure of the forehead above the nose, the tucked-in lip-corners, and the very pointed jaw are personal and by no means ideal features. A glance at the full face suggests a portrait. If then we have two copies of a single portrait connected with the Pergamene Gauls by common consent and distinctly of a Greek and not a Gallie type, we are surely justified in attributing it to a pronument leader on the Greek, i.e., Pergamene side. Eumones, the eldest son and heir of Attalus, appears a reasonable a priori-suggestion if the likeness can be borne out by the coin-portrait.

The likeness is very fairly cogent, but I must admit that I propose the attribution to Eumenes with some reserve. The fringe in the coin seems to be freer and more wavy than on the bust, and the swelling of the brow over the nose is not nearly so marked. On the other hand the general shape of the head, the hatchet-shaped profile, the pointed jaw, the eye, and the very individual mouth are strong points of resemblance.

7. Antiochus II. of Syria. (Fig. 10.)

The Seleucidae present us with far the most complete series of cointypes, since they never tended to substitute their ancestors' heads for their own in the fashion of the Ptolomies and the Attalids. So far as the coins



Fig. 10.-Asymmes H. (Tures) or Synca.

go, there is practically no contraversy for the period down to Antiochus II. Theos, or after Antiochus III. called The Grent. But between 261, when Antiochus II. ascended the throne, and 222, when Selencus III. gave place to Antiochus III., there are a number of issues of Antiochus III., has sons Selencus II. and Antiochus Hierax, and his grandson Selencus III., on which numismatists are not entirely at one.

In particular there is a group of coin-portraits issued at Alexandria Troas which has lately been the subject of controversy. They are distinguished from other Seleucid coins by the addition of a wing to the royal

Macdunald, J.H.S. 1903, pp. 92 foll.; A. J. B. Wace, J. H. S. 1905, pp. 101-2.

diadem, which is interpreted by Dr. Macdonald as a local cult sign of Alexandria Troas, since an identical obverse issued at Ilion shews the same type without the wing. But it seems unlikely that Ilion and Alexandria Treas should have shared a mint at which the Alexandrian coins had a wing added, while the Ilion coins went without. It is surely more probable that the Alexandrian coins belong to a later issue, in which the old die was used, but on which the wing was added for the purpose, in Babalon's opinion," of emphasising the descent of the Syrian royal house through Stratonice, daughter of Demetrics Poliorcetes, with the house of Antigones and its ancestor Perseus. Dr. Macdonald wishes to see in some of these coins portraits of Antiochus II. Theos, and in some that of his usurping successor Hierax. But a close study of the types leaves it very difficult to detect any fundamental difference, and I believe them all to represent Antiochus II.

Turning to sculpture we have two proposed renderings of Antiochus II. One is a poor Romanised Scopaic athlete bust in Naples.2 of which no more need be said, the other a very interesting bronze statuette of a Hellenistic personage with the attributes of Persens.25 (No L) The petosos, or perhaps an arrangement of wings on the head, is lost, but we see the bands that fastened it and the ankle-wings. Schreiber suggested the identification with Antiochus II, and it stands the test of close comparison with the coins. The small, deeply-recessed eye, the thin, small, nervous mouth, the long, pointed nose the rather underhanging chin, show a clear likeness to the coins which is strongly confirmed by the common Perseid attributes. Mr. Wace is certainly wrong in connecting the straps with the athletic head-dress on a head in the Capitoline Museum.

With the bronze statuette and with the coins I should like to connect another bronze head in Naples known as Gains Caesar or a Greek warrior.30 (No. 2.) The profile shows too great a resemblance for the connexion to be fortuitous. We are faced, however, with the problem that there is no diadem to prove royalty. The head is very young, one would say barely over twenty, and Antiochus Theos did not become king till the age of twenty-four. If we look at the earliest of the coin-issues (No. 3, Fig. 10), which must belong early in the reign, we see the same sensitive, rather full lips, the upper one projecting beyond the lower as in the bust. Later issues, on the other hand, and the bronze statuette hold the lips more firmly.

The Seleucids had a strong family likeness, and a good claim might be made for Seleucus II., the son of Antiochus II., on the evidence of the coins. The difficulty of the diadem would, however, be aggravated, as Seleucus II. ascended the throne about the age of twenty, if not younger.

E Rois de Sprie, pp. 1s. full.

^{*} Inv. No. 3594; Rossbach, News Jahra. 1899, p. 55, Pl 1 2; Furtwangler, Masterpieces, p. 204; Wate, J.H.S. 577, (1905).

Hauser B.P.W; 1903, p. 137; Belireiber, Studies 2, L. Biblists Alcannilers, p. 272; Wace, J.H.S. 1905, p. 98.

[&]quot; Bernoally Rom, Leon. il. p. 134.

8. Aguthocles of Bactria (Fig. Lt.)

Agathocles was roler of an Indo-Bactrian kingdom at some period during the first half of the second century a.c. He was sufficiently prominent to have carned the nickname of the Just, and his coins are well known. With these it is worth while comparing the fine portrait head in the Louvre, once called Caesar and also Antiochus III. The latter is an impossible suggestion for the head, since his portrait is well known on coins, and presents no point of comparison. He had a short upper lip, a protruding mouth, and a pronounced occipital development, features all of which are absent from the Louvre head. On the other hand a comparison with the roins of Agathocles shows an identity in the rather curious head-shape, which is highest at the back, and then a little flattened behind, in the short straight locks of the tringe—a detail reproduced in the other coin-types of this House such as those of Diodotus and Euthydemus II.—the flat locks above the diadem, and a very individual lock of hair starting above the temple and hanging in front



FOR 11 .- ADATHOCUS OF BACTURA,

of the ear. We should compare also the thin horizontal forehead wrinkles, the marked wrinkle at the lip-corners, and the curved form of the brows. Though the tip of the nose is restored, it must also have been long like that on the coin, and the long flat upper lip and tightly pressed mouth are identical. We see the same short clear-out chin, and a very remarkable similarity in the way in which the frontal sinus overlangs the root of the nose, making a pre-nounced angle. The high checkbones and the modelling of the face are similar. Such points of resemblance can only lead to the conclusion that the same individual is represented on the coin and by the head,

³¹ A. von Sallet, Die Nachfolger Alexanders des Grosses in Baktrigs und Indien, P. Gardiner, B.M. Catalogue, The Great Kings of Lineria

und fields. Imboof Slumer, Festcattopy's, Pl., VI., No. 39, ≅ Aradt Bruckmann, Nos. 103, 104,

9. Throydides (Fig. 12.)

Thucydides is well known to us by the Naples inscribed herm (No. 3) and the fine head in Holkham Hall. (No. 1.) Here we have copies of an early fourth century portrait of the great historian. Like most portraits of this date the emphasis is on the type rather than on the individual. In spite of the wrinkles and incipient baldness, neither of these heads provides a really personal likeness.

There is in the museum of Corfu a hitherto unpublished head shown between the other two (No. 2), which displays considerable similarity to the Thucydides type. Now there is one clear and obvious difference. The two well-known heads are not later than 380 n.c., while the Corfu head is certainly not earlier than 280. If, therefore, it stands comparison at all, it is a Hellenistic rendering of an earlier and more classical type.







Pio. 12 -Tunevoppes.

In comparing the heads we see at once a general resemblance in the shape and proportions, the incipient baldness, and the character of the beard; on looking closer we find a great similarity in the shape of the eyebrows and the triangle of wrinkles above the root of the nose, the horizontal forehead wrinkles, the wave of the hair back over the ear, the oblique furrows from the mostrils, and the firm down-turned mouth. The differences are simply due to two circumstances: the man is ten or twenty years older, and the portrait is a century younger. I believe that we have in the Corfu head a new and vastly more interesting pertrait of Thucydides represented by a Hollenistic artist as the old and distillusioned exile on his return after the Peloponnesian war. There is a hard restraint about the mouth and a sourced look in the eyes which proclaim the man whose life has been embittered.

Inc. No. 6289 : Arade Brackmann, Pt.
 128, 180 : Michaelia, Juderbach, 1890, p. 157 ;
 Bernoulli, Grach, Ican. h. pp. 159, 180, Pt.

XVIII.; Hekler, op. cst. Ph. 15.

10. Aristotle. (Fig. 13.)

The portrait of Aristotle has been satisfactorily settled by Studniczka on grounds of the close resemblance between a large number of cognate heads and the inscribed bust of Aristotle once in the possession of Fulvins Ursinus. (No. 2). These heads are all due to a common archetype, and all have one further feature or absence of feature in common, namely, that the neses of all are missing or restored. I put forward a new chaimant to this family with diffidence, since Studniczka has himself rejected this bust—a bronze bust from the Herculaneum Villa—as unlike the others. (Nos. 6 and 8.) To me however it



seems not only like them but incomparably the best of them, and it has its nose intact. The points of resemblance are the hair, the fashion of the heard, the excessive width of the upper part of the head, and the shape of the straggly locks on the forehead, the straight line of the mouth with the moustache curving over it at the corners, and a sharp angle between the torehead and the top of the head. There are only two points of difference—the eyes are more deeply sank and the mouth does not project so far nor shut in so tight a line. In general too the expression is more anxious and less calm. However, on looking at the drawing of Fulvius Ursinus' bust for what it is worth, we see that in both these points the Naples bronze is, if anything, closer to it

E Des Hilderie von Ariebiteler; Hekler, ep. rit. Arpdt-Bruckmann, Pl. 671, 672, Hekler, ep. cfl. Pl. 94 s.

than the other busts. Its eyes are also deeply sunk, and its mouth is not so firmly compressed. I believe the differences again to be a matter of date. The main series of busts belong to an archetype which dates from about the same time as the Corfu head of Thucydides-about 280; the Naples bronze belongs to the later Hellanistic age with its inevitable demand for pathos and expression. The bronze bust belonged to an eminent philosopher-the owner of the Herculaneum Villa-and on a priori grounds one is safe in attributing considerable popularity and fame to any of the busts which he collected. The nose is a feature of some interest, as we happen to possess a description of Aristotle in which his nose is called aquiline 37 Although the bridge of the nose in the Naples bronze is straight for most of its length, it does drop perceptibly at the tip and project in rather a beaky fashion over the upper lip. The same description calls him rather bald, bony, with small eyes, a thick beard, a small mouth and a broad chest. Studniczka, however, is undoubtedly right in suggesting that the description is largely due to Arabian imagination. The small eyes are vouched for in antiquity, and a great particularity in his coiffure and dress. His semi-baldness is also established and the fact that he stammered. The latter point ought to be of some importance in regard to the shape of his mouth.

GUY DICKINS.

se Cl. Studnicaka, op. cd. p. 34.

THE HOLKHAM HEAD, A REPLY.

In the last number of the Journal of Hellevic Studies (vol xxxiv. p. 122) Mr. Guy Dickins begins his article on the Holkham Head and the Parthenon Pediment by saying that, before accepting my own arguments as contained in my article (J.H.S. vol. xxxiii. p. 276), 'we have the right to demand from him [myself] some evidence on the following points:—

(1) That there is reason to connect the head with Athens and the

Acropolis,

(2) That the material is identical with the other pediment marbles,

(3) That the style is Pheidian, or at any rate fifth-century Attic.

(4) That it is an architectural and not an independent piece of

sculpture."

I will not needlessly occupy space by repeating what I have already written fully in my article, and I will merely take Mr. Dickins's four objections scription and deal with them as concisely as possible; but I must ask my readers, after they have read Mr. Dickins's exposition of his views, again to read my article carefully in order to appreciate the relative value of the evidence furnished.

(1) The first objection, which he maintains 'is hardly considered by him [me] at all, I hold is to anyone conversant with the general facts-fully dealt with in my article. We must remember that there can only be very few fragments of the Parthenon extant anywhere in the world, even in Greece-Since the days of Lord Elgin, beyond the fragments left on the site itself or to be found in the basements of the British Museum, about three or four larger pieces have been identified, and one of these as is generally admitted by archaeologists, namely the Wober Head, certainly came from Venice. If it is difficult for Mr. Dickins to admit the possibility and even the probability that some of the few extant fragments may be found, of all places in Italy, such was not the opinion of the late Sir Charles Newton. When in 1878 I left for a tour in Italy and Greece he especially enjoined upon me the task of hunting for fragments of the Parthenon marbles in any one of the European countries; but especially in Italy. Knowing as he did, and as we all do, that Moresim and his associates attempted to lower parts of the pedimental figures-we know in one case with what disastrons results-it was not unlikely that such fragments would have found their way into Italy.

especially to Venice. About that time I communicated to him my belief that the large fragment of the lower part of a seated draped female figure in Venice, which he had noted in Architelogische Zeitung of 1860, might possibly be a fragment from the Western Podiment of the Parthenon. This fragment was published by me in the Architologische Zeitzung of 1880. (xxxviii, p. 71 seq., taf. vii.) and has been reprinted in my Essays on the Art of Pheudias (pp. 120 seq. Plate V.). Sir Charles Newton had the cast of this fragment placed in the Elgin Room of the British Museum for comparison with the Parthenon sculptures. That it certainly illustrates the Phoidian style of the Parthenon no fair-minded archaeologist will deny. Since those days, in 1882, I identified the head of a Lapith which came from Greece in the Museum of the Louvre (J.H.S. vol. iii, p. 228 seq., Essays etc., p. 98 seq. Plate L. About the same time I discovered two fragments of smaller reproductions of the Parthenon Frieze in terracotta, the one in the Louvre, the other in the Royal Museum at Copenhagen (Essays etc., p. 231 seq., Plate XL); while Mr. A. H. Smith discovered another fragment of the same series in the Museo Kircheriano at Rome (Essays etc., Note F. p. 232 seq., Plate XIII.). Though the late Professor Furtwangler maintained the absolute genuineness of these fragments with emphatic dogmatism, as M. Salomon Reimach with the same vehencace maintained that they were forgeries, while I still withhold my final judgment on this point, the fact remains that I was right in considering them to represent the style of the Parthenon soulpitimes.

In 1889, after the Greek excavations on the Acropolis, a fragment of a female head in relief was found. In this case, as in the case of the Lapith head from the Metopes, I was enabled to furnish absolute proof that the fragment in question was the head of Iris from the Eastern Frieze of the Parthenon, and the cast of this fragment can now be seen immured in the continuous frieze in the Elgin Room at the British Museum.

This brief summary of the discovery of fragments from the Parthenon marbles in recent years is here given, not so much to establish for myself some claim in being capable of recognising the style of Pheidian art, but rather to show how we have reason and duty to hope that such fragments may be found in any part of the world, above all in Italy itself. Matthew Brettingham, who scoured all parts of Italy to purchase works of ancient art, would in the eighteenth century be as likely to seems such a fragment there as anywhere else in the world.

(2) Mr. Dickins is certainly right in agreeing with me that the question of the marble is of supreme importance for my contention, and I have done all in my power to settle this question. I might perhaps be allowed to suggest that before he ventured in a serious article to contradict all my statements on this important question as well, be might have seen fit to satisfy himself at least on this important point, and to have examined the marble at Holkham in its relation to the marbles in the British Museum.

¹ Say American Journal of Archivology, 1889, Pl. II.

though even then he would hardly be justified in expecting that his judgment would at once have over-ridden my own and that of my geological colleague, Professor McKenny Hughes, I paid three separate visits to Holkham to examine the original itself, from every point of view, and especially with regard to this important point of the nature of the marble. On the last occasion I had the great advantage of being accompanied by a specialist in goology and petrography. He had brought with him numerous specimens of the various marbles for confrontation with the head itself. Both he and I were not satisfied with the finality of our studies on the spot and I did my best to persuade the owner to allow us to procure even the smallest chip from the back of the head, not visible to the spectator and in no way damaging to the work of art itself, in order that microscopic slides might be made for further more accurate and scientific examination of the Mr. Dickins must forgive me if I remonstrate with him for seriously informing a specialist in geology of the difference in the nature of marble, even from the same quarry. This is of course known to all petrographers, and I myself have referred to this as a warning against hasty conclusions on several occasions. Nevertheless it cannot be denied that a great deal can be learnt as regards the classification of marbles from such microscopic examination; and the difference between, for instance, Pentolic and Parian, and Pentelic and nearly all the Italian marbles is fairly recognisable. I could not prevail upon the owner of the head to give us this help towards the scientific solution of an important question. I could not even prevail upon him to allow me to have the head taken from the high niche and placed in a proper position and a proper light in order to have a really good photograph of the original made. I therefore had to remain content with a not very accurate photograph in its present unfavourable position. and for the rest had to rely upon photographs of the cast which, as regards the non-expert in such matters and even among archaeologists, are most misleading for the determination of delicate questions of style. If I failed in these attempts I need not say how impossible it was to get permission to bring the head itself to the British Museum for actual comparison on the spot with the Elgin marbles there for the light such a comparison might throw upon the question of the marble. But I must here emphatically point out the dogmatic and entirely maccurate way in which archaeologists who compile catalogues of the various museums decide upon the question of the separate marbles. Should Mr. Dickins find it worth while to examine the original marble at Holkham, with a view to determining its celationship to the Parthenon marbles as regards material, I would warn him to remember that, not only this head at Holkham, but all the marbles in that house have, in comparatively recent years, been subject to a process of cleaning which has robbed them of their ancient patina, and that the appearance of the marble might therefore be very misleading to anyone applying his 'trained eye' to the determination of each delicate questions. I spont many years in the careful study of monuments in all the museums of Europe, and have seen many works issuing from the ground during excavations; but my

experience has certainly taught me one lesson: namely, extreme caution in expressing a decided opinion. As an archaeologist I shall always humbly defer to the final judgment of specialists in petrography, such as my friend

and colleague, Professor McKenny Hughes.

3. That I should consider the style of this head Pheidian or fifth-century Attic, fills Mr. Dickins with amazement. He goes on to say that, 'no doubt the sculptor of the pediment was not a first-class artist, but he did not at any rate commit the faults of the Holkham head. I must confess that Mr. Dickins's opinion of the sculptor of the Parthenon pediments as a second-rate artist-or at all events not a first class artist-will fill overy archaeologist and artist with amazement. I need not repeat my reasons for assigning the Holkham head to the Attic style of the fifth century; but I must protest against all he says of the general inferiority in the modelling of this head with the heavy monotonous fleshy forehead, cheeks, and neck of the Holkham head, and I would beg those interested in the question to examine the original, and not merely the cast of the head, to realise the quality of the modelling of these parts. As to the question of the lower evelid, the edges of which are not as sharp as those of the upper lid, I could give him many instances of such differences in heads from the best period. Often (as I believe is the case in our instance) weathering or the restorer's hand in addition to this will account for such difference. It will, for instance be seen that in the well-known sepulchral relief, Hegeso wife of Proxenos (Collignon, H.S.G., ii. Plate IV.); the seated famalo figure retains great sharpness inthe cutting of the features, notably the eye-lids; while in the standing attendant female figure the features and the eye-lids have been much amouthed down in comparison. There is not a trace of the 'drilling out' of the lip corners (which he claims to see in the Holkham head) such as we find in later Roman work. He begins more definitely with the treatment of the hair, and maintains that 'the Parthenon sculptures and all the works certainly connected with the school of Pheidias show the use of thick ourls of hair with a very pronounced wave. There is no such unity in the general treatment of the hair of works belonging to the fifth century. A careful study, not only of the few heads extant in the Parthenon, but of the earlier Olympia pediments and the heads from the Argive Herseum show a great diversity of arrangement in the treatment of the hair to conform to the several personalities presented. Some are treated in a broader manner, others with more minute variety and detail. We thus also find a very marked difference in the treatment of hair by the same artist, when Polycleitos, for instance, gives us the flat hair of the Doryphores on a definite uniform system, and the strong variety of line and depth in the curls of the Diadumence. To realise this variety I would ask the reader merely to turn to the second volume of Collignon's Histoire de la Sculpture Grecque (page 59, fig. 26) and to examine the treatment of hair of the three best preserved heads from the Frieze of the Purthenon (Poseidon, Dionysos, and Peitho) to realise the difference and the more meticulous treatment of hair strands and curls in one and the same work of the Pheidian period. Let

him turn also to the so-called Lemman Athens from Bologua which Furtwangler attributes to Pheidais to realise what varied minuteness was given in this period to the treatment of hair if the artist desired to indicate this Let him also note the difference in the treatment of the hair between the female figures on one and the same relief, namely, the well-known Eleusinian Relief (Callignon, HS.G., ii. page 141 fig. 68). If I am right in considering the Holkham head to represent Aphrodite-and though other divinities are occasionally represented with carrings the addition of such jowels strongly, favours such an interpretation—the sculptor of a pedimental group would certainly give a more ornate treatment to the hair of this figure than to any of the others. In my article I chiefly compared the treatment of the hair of this head with that of the so-called Weber head especially on Fig. 16, page 288, where, in the profile view, the sharpness of the modelling has not been rabbed away as it is in front. To appreciate the difference in the earlier and later treatment of the hair, however, one need but compare the hair of the Holkham head with that of the colossal head from Turin. figured in his article, to realise the marked difference. Mr. Dickins does compare these two heads with one another, using the full face view from the original of the Turin head and the profile view from a painfully white cast of the Holkham head. I would demand that both marbles be examined in their front view, and that it be remembered that the upper part of the hair on the Holkham head is restoration.

Mr. Dickins adduces for comparison with the Holkham head works like the Hera Ludovisi (a highly contested work on the nature of which I cannot enter here now) and the restored head of the Giunom che discende dall' Olimpo: of the Villa Albani. But he considers the nearest analogy to the Holkham head to be the colossal head in Turin which he figures on page 124 of his paper, Fig. 1. Now I maintain in all sobriety and without violent dogmatism or arrogance, that one could hardly find among all ancient monuments two heads more suited to illustrate contrast between two styles rather than likeness than these two heads which he considers nearest to one another. The Holkham head gives the leading characteristics of a severer art of ancient Hollas-though the subject dealt with be that of Aphreslite and not of a Hera or a Demeter, and consequently one which would be more likely to anticipate the less severe treatment of the fifth century and early fourth century ac, which would not be the case with other divinities. The Turin head on the other hand, illustrates the great change that set in after Scopas, and even points to a period after Lysippos and the period of Alexander the Great as a striking specimen of Hellenistic art. In the head from Turin which, to my mind, is an offshoot of the artistic direction initiated by Scopus, and, passing through Lyzippos to the schools of Pergamon, a late offshoot-how late I am not able to

I have endersound to find reproductions of the bend thus described by Mr. Dickins without further reference. I seem to remember

if as part of a willing but eithout entation it is difficult to remember the many thousands of works in European massions.

determine—we have a distinct contrast in character and workmanship to the severer and earlier art of the fifth century; as illustrated in the Holkham head. I repeat: It would be difficult to find two heads so completely illustrating this contrast. The two heads are here (Fig.1) placed aide by side for comparison, the Holkham head no longer from a cast and in profile view. From the most general point of view, in attitude and expression there is a 'romanticism,' a sentiment, in the Turin head quite foreign to any heads I know which point back to the style of the fifth century u.c. The beginnings of such an expression and general artistic character we find in Scopasian



THE HOLKBER HEAD.



Fig. L

HEAD IN TERES.

heads and in the well-known head of Niobe in the Florentine statues preserved to us in a very inferior late Roman shop-copy. But, even in this late copy of the work which illustrates Scopasian character to us, we have a certain moderation and severity still noticeable in which the Turin head is entirely wanting. On the one hand, every feature in the whole modelling is coarsened down; and, on the other hand, there is a psculiar realism especially noticeable in the treatment of the hair. Though the hair is meant to represent the long hair of a female figure, not the longer or

shorter curls of a male figure as in the late portraits of Alexander the Great, or in the giants from the Pergamenean Altar, or the so-called Dving-Alexander. The twists and twirls, the restless fluid character of these strands rising and falling on either side of the central parting, the more violent deeply out and sharply rising ripples and waves, are most characteristic of this late sensational period. We come nearest to this style of hair in the two sea-centaurs in the Vatican," with which I beg the reader to compare the hair of the Turin head. The hair of these sea-centaurs is Hallenistic and, though later, may be led back to the Scopasian direction of art. Both Amelong and Lowy (l.e.) recognise this. It certainly is late in character, and is contrasted with the severer style of the fifth century n.c. and with that of the Holkham head. Moreover the work is most mechanical, and it is here that the drill has been freely used when we come to the long and deep groove cut into the mass of hair that covers the car. Though the artist is here dealing probably with some divinity, if the diadem was gennine, he would put more restraint upon himself than he would in the case of a sea-centaur; but the character and the period remain the same as in the. instances quoted, which mark a late development of the Greek schools of the end of the fourth century, turning through Pergamon and Rhodes back to Roman, or at all events, flowing into the later Roman period. The same late period is shown by the strong downward curve of the eyebrow and the deeply sunk eye, as well as by the open month and the expression which this treatment of such features gives. It is also accentrated by the hard and mechanical line coarsely cut into the cheek beside the nostril. This more mechanical treatment can also be seen in the rigid groove cut at the angle of the mouth

We here have an illustration of the later developments of Greek art in the strongest contrast to the spirit of Greek art in the lifth century, and this contrast cannot be better illustrated than by a comparison between the front views of the original Holkham head and this colossal head from Turin. If this head is the one best suited in Mr. Dickins's words for the real comparison for the Holkham head, then I have nothing more to say against Mr. Dickins's strictures on my own identification of ancient sculpture as hased upon the study of style.

As to the divinity to which this head belonged, I can only repeat that, if in mind we add the earrings which were certainly there, and compare in mind the relationship which this decidedly earlier type hears to the Cuidian Aphrodite, the head is more likely to be that of an Aphrodite than of any other divinity.

Mr. Dickins dismisses my arguments which tend to show that the head formed part of a pediment as based upon perspective, by asserting that the deviations I referred to in my paper are signs of "poor workmanship," and

Helbig, Fisherer, etc., Nos. 185 and 170; Vathers Catalogue, ii. p. 418, n. 253, T. 46., and ii. p. 386, n. 228, T. 42; Lawy Writesh

Kunst, p. 86, T. 101. The best illustrations are Branc Brackmann, Dinkondler, Nos. 137 and exa

that all heads turned to the side are liable to produce asymmetry. I would ask the reader to examine again the heads from the Argive Heraeum as given on Figs 17 and 18, pages 292-3, of my previous article,—still better if he would take the trouble to examine the more adequate renderings of these heads on Plates 31, 32 and 33 of Vol. I. of my Argive Heraeum. I would then ask the reader, whether or not the marked divergence from the straight central line of the centre of the helmet of Fig. 2 on Plate 33 and of Fig. 3 on Plate 31 is due to the gross incompetence on the part of the scalptor to fit these helmets in a straight and ordinary way (which is so easily done) and to the involuntary asymmetry which comes from the incompetence of a sculptor who could produce such excellent work as these heads undoubtedly manifest.

Finally, Mr. Dickins tells us that 'when the modern restorations of the Holkham head are removed it will be seen that the original back of the head forms a regular flat surface ; that 'the good condition of the head precludes the idea that it ever met with such damage'; and that 'murble heads do not split in regular layers with smooth surfaces.' The explanation therefore of the restorations is that 'the Holkham head was never complete, but was originally made as a mask of the same kind as the Turin head. How can be predict what will be found when the restorations are removed; and is he aware that the restorer will generally smooth down parts which he joins together? But Mr. Dickins will allow me to be personal and to say that I have been present on the sites of a great many excavations, besides those which I carried out myself, beginning with those at Olympia, and I can assure him that the evidence of innumerable fragments of statues and heads which I have there seen as they were dug up, having fallen from some height (namely, pediments, metopes, and friezes), shows that the marble itself split in large masses and when it thus splits and has not fallen upon the face (but probably on the top of the head) the face may be in very good condition. The head of the Metope of Plate 30 of my Argine Hornoum is almost intact as regards the front of the face, while the back of the head was split off clean, but was fortunately found by us, so that we could bring the two parts together again. But more than this, I would ask him to cast even a superficial glance at Plate 17 of my article, taken from the original of the Holkham head, and he will see that the break, marking the point where the restoration of the top and back of the head was added, does not present a regular and straight line such as would have been the case had the head been presented as a mask. Moreover, the breakage at the right and the left of the neck, as well as in front, and the restorer's work (who wished to make of R a symmetrical bust to be placed upon a small pedestal) are not of the nature of those masks with which we are all familiar.

Whether I am right or not in considering it probable that the head formed part of the Parthenou pediment, so much I do claim: that even if the Holkham head be a copy, it is one of the best Greek copies, not a late Roman shop-copy, such as are some of the other heads which I reproduced in my previous article. Moreover, it would be a copy of a type earlier than the Aphrodite type of Praxiteles and would lead us back to the fifth century n.c., which finds its fullest expression in the art of Pheidias; and that this type stands in the strongest contrast to such later developments of Greek art represented by the colossal head from Turin, which Mr. Dickins considers the fittest specimen for comparison with the Holkham head.

CHARLES WALDSTEIN.

THE PROGRESS OF GREEK EPIGRAPHY, 1913-14.

The following summary of the more important books and articles in the field of Greek Epigraphy which have been published during the year ending with the close of June 1914 continues the series of similar reviews which have appeared in the last eight issues of the Fear's Work in Classical Studies, in which it has proved impossible owing to pressure of material, any longer to devote a chapter annually to Greek Inscriptions. My sincere thanks are due to the Editor of this Journal for offering the shelter of these pages to a waif which otherwise must have come to a speedy, but I venture

to hope not altogether unregretted, end.

Heneral.—The past year has witnessed the publication of a number of works which will prove invaluable to the Greek optgraphist and historian. Of the three new volumes of the Inscriptiones Graceae something will be said below. To the Sommlung der griechischen Dialekt-Inschriften, now nearing its completion, has been added a further section, edited by O. Hoffmann and P. Gärtchen, which contains the more important Tome inscriptions published since 1905, addends and corrigends to these which appeared in G.D.I. iii. 2, 5, together with a grammar and index to the whole group. Of even greater interest as the new edition of W. Larfeld's Gricchische Epigraphik, revised throughout and considerably enlarged, which superwdes the earlier edition and provides all that the ordinary student can require, though even now it is only about a third as long as the author's monumental Handbuch : faultless the work is not, but it is no exaggeration to call it indispensable for the study with which it deals. Two more of the excellent Kleine Texts edited by Lietzmann come within our purview,-E. Nachmanson's Historische griechische Inschriften, containing fifty-six non-Attic texts from the seventh century down to the reign of Alexander, and F. Bleckmann's Gricchische Inschriften zur griechischen Staaten-In rule, a series of fifty-mino texts illustrative of the institutions and activities of the ancient state. The same publishers have issued a series of photographic facsimiles of 129 inscriptions of all periods, preceded by short notes, thus rendering an immense service to all students of the Greek enggraphic

¹ Ed. tv., Heft 4, Abt. 2. Gattingen (Vandenhouse and Reposeds). 7 M. 80.

^{* (}keen (Marces und Weber) : 1 M. 75.

[&]quot; Munich (Back) : 10 M.

script. In this connexion may also be mentioned a brief but useful account

by R. Aigrain of Christian Greek inscriptions.6

A question which is giving rise to much discussion is that of the origin of alphabetic writing and the names and order of the letters, a question which is closely connected with, even if not strictly comprised in Greek epigraphy. H. Schneider has set out to prove the Cretan origin of the Phoenician alphabet, while E. Stucken, who has gained at least one notable convert, derives the number and order of the Phoenician letters from the twenty-two stations of the moon in the ancient Hebrew astral conception. A suggestive summary and review of these and several cognate works comes from the pen of A. Reimach: "two articles on the subject not discussed by him may here be mentioned in passing, that of R. von Lichtenberg on Buchstabenreihe and Mythos "11 and that of H. Bauer, who propounds the view that the order of the letters is not based on any theoretical considerations but was determined by setting them down in the order in which they occurred in a series of common words whosen at random 12

A. Wilhelm continues his News Beitrage, 11 the third instalment of which contains ten sections correcting and interpreting with all the felicity and brilliance which characterizes that scholar's work, published inscriptions from Corvyra Melaena, Salona, Argos, Sparta, Deles, Melos, Acarnania, Amorgos, Miletus, Alinda and Thyssanus. A large number of articles and notes on Greek inscriptions which appeared in the Bevichte der süchsischen Gesellschaft and the Ephronicis Epigraphica have been re-published in T. Moumsen's Gesammelte Schriften. 14 The admirable catalogue, edited by F. Cumont, of the sculptures and inscriptions in the Musica Royaux da Cinquantenaire at Brussels to includes forty-eight Greek inscriptions from Attica, Acarnania, 16 Ithaca, Thrace and Macedon, Asia Minor, Syria, Palestine, and Egypt; fifteen of these had not previously been published,-thirteen opitaphs (Nos. 62, 67-71, 77-79, 85, 132, 142, 149), a document of Nazareth relating to the construction of a wall by a governor of Palestine (1914), and a dedication to Ptolemy VI. and Cleopatra II (146), W. Weissbrodt's publication of the inscriptions in the Braunsberg Academy I have not been able to sec. 17 Dialectologists will welcome J. Handel's careful account of the penetration of the xoun into Ionic inscriptions from the second half of the fifth century down to its complete trinmph in the third, in and (if versed in

¹ Q. Kern, Interspeliant Granus, 6 M.

Manuel of Epigraphia Christianue, H.

Der Pretiehe Greprung die phonitiches Sphubets, Leipzig (Hintiche): 3 M. 75.

^{*} E. Bischoff, Theol. Liberalment, xxxix.

^{*} Der Ursprung des Alphabets und die Mendstulieren, Leipzig (Hurrlehs): 7 M. 36.

[&]quot; And Fo it 130 ft; of fice And spill,

II Memban vil. 81 ff.

¹² Roll of Morgan, Good Exvii. 3016.

M Silch Pies, clary, L.

[&]quot;vill. I Epigraphische is, humismalisch. Istorifon, Berlin (Woodmann): 18 M.

¹³ Calalogue des Sculptures et leurophines autiques, ³ Brussels (Vromant).

¹⁶ Cf. Rited. Wiles, cleav. I p. 37 f.

³⁷ Griech, n. b.l. Innihritten in der grobiel. Summing der k. Akad, zu Bonnaberg.

To Hagen communes in trinfor fention trapede, Lemberg (Gabrynowicz).

Rutheman) M. Balakym's similar work for Darian inscriptions 10; students of Greek religion will note with interest P. Stengel's article on the meaning of προιεράσθαι and προιερητεύειν, M A. Delatte's studies on Greek magic. and F. S. Steinheitner's dissertation on the 'confession-inscriptions' of Lydia. Phrygia and elsewhere.21 Other works based largely or wholly on epigraphical materials are B. Laum's exhaustive essay on Greek and Roman benefactions.™ in which all the pertinent documents are printed in extense and translated a second and larger edition of E. Ziebarth's useful book on the organization and curriculum of Greek schools,31 A. Remach's dating of the Athenian sculptor Nicerata's in the reigns of Philetaerus and Eumenes I of Pergamum rather than about 171 a.c., 45 J. Hatzfeld's enquiry into the truth of Plutarch's narrative (Vit. Flam. 13) of the liberation throughout Greece of Roman and Italian slaves after the settlement of Flamininus. M G. Klaffenbach's dissertation on the history of the gilds of Dionysiac regularate a popular article by V. Gardthausen on inscriptions which have survived both on stone and in literature, a collection of graffiti scratched on vases in which the names of the several vases are mentioned. M. N. Tod's article on the Greek acrophonic numeral notations," and a discussion of the significance of the word raura as frequently used in late epitaphs, in which E. Loch maintains 31 his former view that the term is used elliptically (sc. obrus exa, o Blos lords, or Neyw) against W. Havers' assertion 35 that in such cases raine has lost altogether its original meaning and has become equivalent to our mark of exclamation, quotation-marks or finis.

Attion.—The past year has brought us the first instalment of a reissue, tong contemplated by the Berlin Academy, of the Attic inscriptions later than 403 nc. It bears the title Inscriptiones Graceae II et III editio minor (usually cited as I.G. III²) and the present fascicule, ably edited by J. Kirchner and bearing on almost every page tokens of A. Wilhalm's accuracy, crudition and generosity, contains the state-decrees of the years 403–229. The format is slightly smaller than that of the I.G. and the inscriptions are printed in minuscules only, but the titles prefixed to them, the greater fulness and correctness of readings and restorations, the juxtaposition of scattered fragments of the same inscription, and the fact that of the 831 texts in question 174 had not been published before, not to speak of new fragments added to many known decrees, will cause the new work to supersede for most purposes the corresponding sections of I.G. ii. 1 and 5. Other texts published for the first time include an interesting decree passed in 334/3 n.c. by the

[&]quot; Progr. Lamberg.

[&]quot; Hermon, while has to

B.C.H. rexvii. 247 ff., Mass. Billy., vvil.
 321 ff., xviii. 5 ff.

[&]quot; Die Briebt, Munich (Parme).

Stylinges in der priechtschen u. romierken detile, Leipzig (Teubner): 18 M.

M Ann dem griech, Schulmeren, Longing (Teubner) 5 M.

Meleogra Hollomer, 233 ff. Paris (Ficard), H.S.—VOL. XXXIV.

^{99 1846, 93} ff.

²² Symbolus ad Nistoriam collegiorum artifican. Hambiorum, Berlin.

Many Julyle Kl. All. zkziil. 248 ff.

P. Wolters, Ath. Milt. xxxvill. 193 ff., E. von Stern, Philod. Irxii, 546 ff.

[&]quot; R.S. 4. TVIII, 98 II.

[&]quot; Indogram. Foreck xxxiii. 128 II.

¹¹ Ihid, xxxii 150 ff.

³³ Berlin (Reimer) : 17 M. 50.

deme Cholarges with reference to the banquet held at the Thesmopheria and the contributions made to it by the delegates of the demos,35 a decree of 302 in honour of Nicon of Abydus, in which an otherwise unrecorded naval battle fought in the Hellespont just after Alexander's death is mentioned," five fragments of official inventories. In a vase-fragment depicting un inscribed tomb erected over fallen soldiers," a metrical dedication of an ephebe 2 a fifthcentury weight 2 and saven spitaphs.4 To W. B. Dinsmoor we owe valuable discussions of the Erechthoum-inscription " and the accounts of the Propylaca, " to D. Fimmen a rearrangement of the fragments of the Quotalists of 439-432.5 to A. Elter a new restoration and thorough re-examination of the Attic law of 353/2 relating to the Eleusinian anapyai: " four Greek scholars have suggested solutions of a puzzling epitaph of the Peiraeus " and F. Eighler has attempted to determine the date of the archaic basis of Phaedimus. H. Meltzer's brief article on the light thrown by inscriptions on Attic inflexions," based on the results formulated by E. Wolf, and A. C. Johnson's examination " of the epigraphical evidence for the formation of the tribe Ptolemais, which he dates in summer 232 B.C., also deserve notices

The Peloponness.-Of cleven opigraphical monuments in the Museum at Argina published by K. Kourouniotes seven were previously known: three of the remainder are brief epitaphs, the fourth is a painted inscription. on an altar erected to Zeus and Athena on behalf of King Attalus' I of Pergumum (241-197 n.c.). From Aroos W. Vollgraff has given us besides a number of valuable notes on published texts," a new fragment, eight en lines in length, of the famous treaty between Chossus and Tylissus mediated by Arges about 450 R.c. ™ P. Wolters explains the curious term AKOAL found in an Epidaurian inscription (I.G. iv. 955) and elsewhere, as referring to the sounds and voices taken as yong not bytagricol and as transferred to the place at which they were heard. LACONIA has produced no new inscriptions, but A. Wilhelm has published a restoration and discussion of I.G. v. 1. 538, relating to a hitherto unknown διορθωνής Έλλαδος.4 M. N. Tod has commented on a number of texts, and E. Hermann is and

a des Jaura, Arch avii 506 ff.

Ach Will exercit 285 M - Arch Ass Excel 484

a) Am. Journ, Arch. avii, 212 ff.

" Jidd. unt ff.

dparte, Benn (Marous and Weber) . 1 M.

"APX: "Ed.: 1918, 103 H

" Johnst, art. 80 H.

" Bert phil. Work, zrais, 140 ff.

" Die uttiedes Flezienelchie (Ber. d. philol, Verrine : Berlin, 1913, 121 11.).

M .tm Journ. Phil. xxxiv 381 f., xxxv. 79f.

" 'Apx. 'Eq. 1918, 86 ft.

is R.C. U. SANVIII 308 C.

4.00 K

= E.C.H. exxvil 279 H. Manney es, xill 90. W Herpish xlix, 150 ff.

" Std. Berlin, 1918, 558 ff.

" J.H.S. xxxiv, 60 H. " Indogenia. Formi, exxit. 1158 ff., xxxiit.

M E. Michin, Un diend duding de Chilarges, Paris [Klipcksisck] : 1 fr. 50. Ct. C. R. Acad. Inter, 1913, 301., Ave. Ep. 1 3941

[&]quot; Ibid. xviii. I ff. Jahren xvi Beiblatt.

P. Wolters, River Darmellung des athers. Stantsfrielhoft (Nich Manchen, 1913, 6).

^{*} Rev. Et Aug. 19, 264 H., Ayra dur. arvill. 54 to, 451 ft., 456, Openwood, 1912, 99.

⁴⁰ Ibid. 371 fft; cf .40h. Mill. xxxviii. 225 fft.

¹⁴ Ein athensuches Gents ther dis cheminische

A. Thumb " have carried on a controversy regarding the neo-Laconian dialect exemplified in many inscriptions from the Sanctuary of Orthia: the former explains it, not as an artificial creation of a period when the genuine dialect had long died out in Sparta, but as representing the language naturally spoken there at the time gradually reasserting itself against the keep in the hest two centuries of our era, while the latter maintains that it is a living and natural development of the Laconian dialect on the way to the modern Tzakonian, adopted in Sparta not from ancient books or inscriptions but from the dialect spoken at the time in the highlands of Cynuria. The volume of the I.G. devoted to Arcanta has been edited by F. Hiller von Gaertringen; of the 565 texts which it contains, edited with exemplary care, 118 were previously unknown, and the volume is of the utmost value to the epigraphist. the dialectologist and the historian, for whom are provided excellent summaries of the history not only of Arcadia as a whole but of each of its states individually, even those (e.g. Psophis and Aliphera) of which no inscriptions survive. Seven Arcadian documents referring to Graceo-Roman relations have been subjected to a careful and detailed examination by A. von Premerstein,50

Central and Northern Greene.—At Mycalessus (Rhitsons) in Borotta P. N. Ure has found two opitaphs as well as a number of vase-inscriptions, " A. Reinach has discussed afresh the date of the alliance between Acarnania and Actolia discovered at Thermum, at and six epitaphs and two proxenydecrees from Priocis have been published by C. Avezon and G. Blum, The contribution of DELPHI is of greater note. G. Colin has completed the second section of the epigraphical volume of the Pouilles de Delphes by a series of indexes and a chronological table of the Delphian archons therein mentioned, and has incidentally succeeded in determining the author of the Delphic hymn composed for the Pythiad of 138 a.c., Limenius of Athens." As new inscriptions we must note an alliance between the Actolians (including a section of the Phocians) and the Bocotians, which its editor, T. Walek, assigns to about 292 a.c. and a series of interesting Amphictionic decrees, an arbitral verdict of Lamia and a grant of processis to a body of mercenaries, published by H. Pomtow in connexion with his fresh discussion and table of the Delphian archons of 302-202 a.c.68 Of texts already familiar that of the bronze charioteer," these on the bases of the Agus-group." and that relating to Gallio's proconsulship " continue to be

[#] Rod xxxin 291 ff., (24

⁼ v o Berlin (Reimer) | 40 M 50.

^{*} Juneah zv. 197.00

^{**} Elizah Wasse Followy from Rhissoma in Russim, Oxford (H. Milfold): 72,56, net, p. 58 ft.

⁶ Rev. Ep. 1. 995 L

⁻ B.C. H. recell, \$48 ff.

of 111. 2. Index, Paris (Posteriolog); 12 %:

^{**} C. R. Jond, Inner, 1913, 529 ff.

M. Sen Philos. xxxvii. 262 II. G. de Samille dates is about 280 n.c., Allie .fooms. Porsus, atix. 684 II.

[&]quot; D.M.A. 1913, 148 ff.; cf. O. de Sanctia, op. cat. 680 ff.

[&]quot; H. de Laumy, Res. Arch. 251, 383 ff.

P. Wolters, Strb. München, 1913, 4.-p. 40ff.
 J. Otlord, Pol. Expl. Fund Q.S. 1913, 1166; A. Brance, Rev. Holl. 8, 207 ff.

objects of discussion. Thessally is well represented by fifteen new documents,—epitaphs, dedications, manualisations and a long decree of Phalanna (No. 16)—and notes on, or improved readings of, various published inscriptions by A. M. Woodward, a painted grave stele recently added to the Louvre, and further instalments of the righ finds which have rewarded the energy of A. S. Arvanitopoulles, as well as comments from his pen on already known texts. of his new discoveries three epitaphs and nine manumission-records are from Oloösson, seventeen are from Gonni and relate for the most part to a frontier quarrel between that town and Heraclea which was settled by arbitration, while a votive inscription and several painted stelae

have come to light at Demetrias "

Islands of the Aepen. The publications or discussions of inscriptions. from Euboca, to Creto, Thera, Is Los, to Thases so and Tenedos st do not call for detailed notice here. For Datos, however, the year's work has been of great importance. The fourth section of the Corpus of Delian inscriptions, se edited by P. Roussel, contains 840 texts of the period of the island's independence, very many of which appear here for the first time; 554 are decrees, chiefly of the Delian Council and People but also of foreign states, the source Two Nygrector and other bodies, while 226 are dedications and similar documents. M. Holleaux has published a decree passed about 154 n.c. by the Cretan anxiliaries who had assisted Ptolemy VI. Philometor in his Cyprian campaign against Energetes II. Physeon 32 P. Graindar has restored a decree in honour of Telesimia of Athons, si and P. Roussel has given us a historical commentary on the Senatus consultum of 166 B.C. The volume of studies dedicated to M. Holleaux by his former pupils contains much that is of value for Delian epigraphy "; we may note K. Schulhof's article on some questions of Delian chronology (p. 281 ff.), that of R. Vallois on the Delian wirases (p. 289 ff.), that of C. Avezou and C. Picard on the Palaestra and the wall of Triarius (p. 1 ff.), in which a dedication to the legate C. Valerius Triarius (69 a.c.), is first published (p. 14 ff., cf. p. 8 f.), and that of A. Plassart on the Jewish Synagogue at Delos and six brief votive inscriptions (p. 201 (E). Not the least interesting contribution is that of P. Roussel (p. 265 ff.). on ritual regulations of the second and first centuries k.C., found on the island: three of these have here their editio princeps, the most striking being one relating to the cult of the Syrian Atargatis (ayr) 'Appolity). T. Sauciue has devoted an excellent monograph of to the geography, history and

¹⁰ J.H.S. xxxiii. 318 E.

n Arch, Ant. xxviil. 480,

²¹ APX. Ep. 1918, 101 f.

³ Res. Ep. U. 17 IL

P. 'Apx. 'Eq. 1918, 35 (L.

¹⁵ Operand, 1912, 1866., 206; of A. Reimett, Ken. Ep. 11, 126 ff.

^{*} Arch. Akt. xxviii 458, Theorems, 1912,

J. Branes, Herman, xlix, 102 ff.

² Em Ep 1 398; And Pape vi. 20 L

¹⁹ Per. R. Gr. 1211 202

G. R. Acad. June. 1915, 260 ff. A. Reinack, No. Sungardon, Paris (Durlacher), pp. 2, 94.

[&]quot; Er. Ep 1. 179 ff.

[&]quot; L.G. xi. L. Barlin (Reimer) 25 M.

[&]quot; alvel Pape vs. Vit

[&]quot; Music flelps, aviil 97 ff.

^{*} B.C.W. xxxvii. 810 ff.

Molanger Hollanner; Paris (Picarii), in Andrea, Vicaria (Hilder).

institutions of Anonos: an epigraphical appendix of thirty-five pages contains twenty-one new inscriptions and a series of valuable notes on texts found in LG. xii. 5 and elsewhere. From Lesnos we have to note H. Lattermann's expert examination of a Mynilenean building-inscription (I.G. xii, 2 10) 68 and P. N. Papageorgin's restoration and discussion of a recently discovered treaty concluded towards the close of the third century R.c. To A. Plassara and C. Picard we owe an early fourth-century cultregulation of Curos, four other fragments and valuable notes on some lifteen other texts published by Zolotas in 'Adnea XX. 100 to M. D. Chaviaras a series of lifty-one inscriptions, mostly epitaphs, from Nisvaus." A new collection of stamped amphors-handles from RHODES and a series of comments on the

Lindian Chronicle we complete this portion of our review.

Asia Minor.—An inscribed stell from Daseyhum representing a funeral-banquet " has been published by T. Macridy, and an epigraphical journey in the Troan undertaken by A. Reinach has resulted in the discovery of ten inscriptions in the field 36 and about a score of unpublished texts from the Troad, Lampsacus, Parium and Cysicus in the Calvert Collection at the Dardanelles. A brief account of the Pergamene policeregulations is given by F. Haverfield in his book on Ancient Town-Planuing." More important are the results acquired in Acours: J. Paris has corrected the readings of several amphora-stamps from Myrina,20 and eleven new inscriptions have been found by A. Piassart and C. Picard, including a fragment of a third-century law of Cyme, while a number of stones discovered by previous explorers have been more exactly read. Ionta has yielded an extraordinarily rich and varied harvest. The two scholars last mentioned have edited seventeen new texts " four epitaphs from Smyrms, two from Teos, five epitaphs and a decree for a foreign city and three judges appointed by it from Colophon, three honorary inscriptions from Notium, a third-century lease from Clazomenao, and a new fragment of a well-known sacrificial list from Erythrae 101 Ephosus is represented by an account of the benefaction of Vibriis Salutaris, to a convincing restoration by P. Roussel of an inscription proving that the city in the day of her need sold her citizenship to replenish her exchequer, mai and preliminary notices un of a number of enigraphic discoveries made during the Ephesian excavations of 1907-12 general interest is I. Levy's note on a Prienian inscription,165 but on the other hand the volume which contains the official account of the Milesian

^{**} Ben Sp. ii. 1 ff.

п 'робот ст) Аловот ката фартара той у niferer responds to Epicy, Lidging (Tenham)

[#] B.C.H. Except, 198 ff., 448.

[&]quot;ANX Ep. 1918, 6 ft., 108.

Melaupe Hollean, 153 ft.

M Berl, while Work xxxiii 1371fff, 1416ff., Rev. Ep. 1. 307 L. Arch. Red Ivi 514

[&]quot; H.C.R. 223vii. 358.

[&]quot; Liev Ep. L 290 fL, il. 85 ff.

^{**} Ibid. 1. 165 ff.

[&]quot; p. 63 t. Ct. H. Lamer, New Jakes, kt. AR xxx1 522 H.

^{**} Heir, Ep. 1. 370 ff...

^{*} B.C.H. xxxviii 155 ff., 448.

¹⁰⁰ HAZ 183 E, 448 L

III 2666, 449.

[&]quot; A: Reinneh, Rev. Ep. i. 227 ff.

ter Res. Philol: 222vii. 382 ff.:

[&]quot; Johnson av Briblain, 157 ff.

be Ben Ep. L 251 1L

Delphimum 18 stands out as one of the mest important works of recent years. It contains 159 inscriptions of which only five have been previously published, notably the famous regulation of the oppia of the notate (No. 123), the decree accepting Eudemus' benefaction to the Milesian schools (145) and the bilingual dedication, Nabatacan and Greek, of Syllams (165). I cannot in the short space at my disposal refer, however summarily, to all the documents of interest contained in this collection, which includes several archaio inscriptions written boustrophedon,-a sixth-century sacrificial calendar (31, cf. 31., p. 401), the dedication of an alter to Hecate (129) and a caltregulation (132),-eleven treaties concluded by Miletus in the fourth, third and early second centuries (135 ff.) and two important records of state loans (138, 147). But the most valuable group is that comprising seven lists (122-8) of the oponymous magistrates, the aredarydopos or modules also per оўтак affordling a continuous catalogue from 525 to 260, from 232 to 184 and again from 80 n.c. to 31 a.b. A striking fact is the frequency with which Apollo was called upon to act as titular stephanophorus,-twenty-three times in the 120 years between 330 and 184 n.c. which are covered by this document,-probably because his treasury was better able than private purses to meet the expenditure involved in the office. U. von Wilamowitz's brilliant sketch of Milestan history 167 and his and A. Rehm's 108 corrections. of several texts in the volume just referred to should be noticed, as also H. Grégoire's interpretation of CI,G, 2883 as an answer made by the oracle of Branchidae to Diceletian and his colleagues an answer which led to the persecutions of the Christians 100 Turning to Lydia we must notice two further instalments of the publication by W. H. Buckler and D. M. Robinson of the Greek inscriptions found at Sardis 110; four of these (Nos. 4-7) comprising in all seven texts are in honour of priestesses of Artemis, who bear the native title of xaven, one is a list probably of newly enrolled citizens (No. 8), and fifteen are epitaphs, including one (20) which, dating from about 450 p.c., is the earliest Greek inscription hitherto found at Sardis. The Lydian local and personal menus found in this series of texts have been carefully examined by A. Cuny III To W. H. Buckler we owe also a batch of twenty-one inscriptions of Thrutira, of which only two (16, 21) were already known, comprising sixteen honorary inscriptions of the Imperial period a milestone bearing a title of Gratian, Valentinian and Theodosius, and four epitaphs.113 Cama too is well represented by a fragment of the dedication of the Thermas at Aphrodisms, 13 a summary of the known inscriptions of Nysa ad Macandrum and the reconstruction, by the aid of a newly found fragment of a long inscription of that town including letters from Selencus and Antiochus the Great relating to the rights of areala enjoyed by the

Des Bolgakenion, Burlin (Raymer) 22 M. 50.

¹⁰ C. A. 1914, 65 C.

Weren, xlix, 31 Lf.

Melinger Hallinger, p. 81-11.

¹⁰ An. Ames. Arch grii 858 ff., 27iii 85 ff.

³⁰ Rev. Rt. Ann. xv. 209 ff.

¹¹¹ Rev. Philad 222vil. 339 ff.

^{110 22} R And Iver 2014, 48 R.

Plutomon there, ill forty-one texts, mainly votive and sepulchral, from the Cuidian peninsula and the Rhodian Pemea,413 a discussion of the native Carian inscriptions by A. Cuny, 116 and a republication by H. A. Ormerod 117 of the famous Hallearnassian list of priests (Dittimb. Syll. 608) and of an imperfectly known honorary inscription from Xanthus in Lycra, both of which are now in the Museum of the Liverpool Royal Institution. A Lycian journey undertaken by the same scholar and E. S. G. Robinson has resulted in the discovery of fifty new texts, its including three gravestones of considerable interest (Nos. 10, 13, 26) and a fragment in the native language (29). The dedications of a group of third or fourth century relials of Lycia have been examined by O. Weinreich 119 and S. Reinach, 126 J. Sundwall has shown 120 that an inscription from Andeda in Pisidia recently published by Woodward 1222 refers to an otherwise anknown proconsul of Lycia and Pamphylis named Vindicianus, probably the grandfather of the Avianus Vindicianus known from a number of epigraphical documents. In his article entitled Sketches in the Religious Antiquities of Asia Minor 121 W. M. Ramsay makes constant use of inscriptions, of which he gives in several cases new and corrected readings, and publishes three from the sanctuary of Men Askachos next Antioch and the neighbouring district. including a fragment of the Tekmoreaua lists giving as a definite date, A.R. 238 A full and interesting account of the cult and testivals of this Men comes from the pan of J. G. C. Anderson, 21 who publishes twenty-seven inscriptions, the majority of which are records of victories won at these festivals, notably in the again Masquireios founded by a certain C. Ulpius Baebianus (for an epigraphical account of its institution see No. 11) in honour of Galerius, an embittered persecutor of Christianity: ' the sanctuary of Men at Karakuyu is thus proved to have been one of the centres of pagan revival during the surly decades of the fourth century.' G. L. Cheesman in discussing the influential Antiochens family of the Caristanii 218 gives a revised reading and restoration of a Greek honorary inscription, with a detailed commentary, by W. M. Ramsay. Otherwise we have only to mention A Reinach's note on the Meter Koundatrene of a Lycaonian text 136 and J. Peristianes' publication 125 of a Greek dedication in the native syllabora from Carymen in CYPRUS.

Outlying Regions. Sanninia has given us a metrical emitaph,128 Sicily fourteen minor inscriptions, chiefly sepalchral, from Syracuse, 159 and

^{...} W. ron Diest, Spin and Manuadram, Buille (Ramer) 18 M. Fp. 7 ft., 82 ft.

OF ANY. 'Es. 1918, 1 E. 17, 162 E. Am. Journ. Phili univ. 451 ft.

¹²⁶ Rev. L. Just 37, 41 E.

¹⁰ Liversual Zuants, vi. 90 ff.

W J.H.S. mady I'd.

¹¹³ Sees. Healthown, 1813, V.

¹⁰⁰ figs. Lord tail 279 ff

⁻ Jakerd, av Heiblatt, 210

P. B. S. A. XVI. TORE

¹¹⁰ Bed. will, 37 ff.; of A. Rolmet, Ber. Ko. 11 .154 fr.

¹⁴ J. R. S., Tel. 267 ft.

P Had 223 17.

III Res. Rp. L 393 f.

² J.H.S. SERIE 110 H.

m Notion, 1913, 99, 425.

⁷⁸ Thirt, 298 W.

explanations by H. Diels 130 and A. Brinkmann 131 of the schoolboy's jests found last year at Aidone, Frank a defixio from a Calabrian tomb its and a number of epitaphs, gramiti, etc., chiefly from Ostia and Pompeii: is we may also note the discovery of an epigraphical MS, at Lucen, 121 fresh discussions by A. Remach 123 and A. Mamri 236 of the billingual Neapolitan inscription of 194 B.C. recording the honours paid by the dearpia of Artemis to a benefictor and his letter of acknowledgement, are examination of the date of the picture from Herculaneum signed by Alexander of Athens,120 and a note on the synagogues mentioned in the inscriptions of the Jewish catacombs of Monseverde. 138 A. M. Woodward has published 130 thirty-two new inscriptions from Beroen in MACEDONIA, of which three letters of Demetrins (No. I) and a manumission record (2) are the most interesting, and corrections of twolvetexts of the same town and an important decree of Dranie; 40 he and A. J. B. Wace have also given us oleven new Greek texts from Upper Macedonia 14 We owe thirty-three inscriptions of Thessalonica to C. Avezou and C. Picard, including a mutilated rescript of M. Aurelius and L. Verus (No. 2), four dedications and twenty-six epitaphs of the Imperial period. 140 The other finds made in this region are of lesser importance, is while of works of a more general character I need only refer to W. D. Ferguson's examination of the legal terms which occur alike in the Macedonian inscriptions and in the New Testament 314 and to W. Baege's dissertation on the religious rites of the Macedonians, its We may turn next to Thrace and the lands bordering the Dannbe. Avezou and Picard have discovered ten unpublished inscriptions of Abdera, five of Maronea and two of Trajanopolis ad Hebrum, one of which records interesting details of coad-repairs carried out by certain villages under Septimina Severus. 140 The liest native Thracian text to come to light has been edited by P. Krotschmer, 122 and G. Soure continues his investigations of Thracian antiquities by discussing eight ex-votos and apitaphs 18 which are unedited or little known, as well as a puzzling weight found near Selymbria 120 and the seven extant dedications to the Thracian deity Zhelsourdes,156 for whose cult G. Kazarow adds several new pieces of epigraphical avidence. 16: A. Reinach's contributions to Thracian studies 100

⁵⁰⁰ Steel Berlin, 1913, 715 ft.

¹² Eh. Mar. | xviii. 680 f.

im Notice, 1913, 3174.

Noticis, 1912, 185, 192, 213, 252, Ker. Ep.
 1. 162; cl. Bull. Comm. Arch. xll. 63

¹⁶ Rev. Ru. L. 402 L

am 156d, 230 II.

¹⁴ School Russaur, 1913, 21 ff.

THE REP. Ep. II. 117 II.; of South, San XXVIII.

¹⁹ J. Offord, Fal. Espi. Fund Q.S. 1914, 46.

¹¹⁰ fr. S. A aviii. 133.11

¹⁶ J.H.S. Exxill 387 ff.

¹⁰ H.S.d. zvil. 168 ff.

IN B.C.H. TIEVIL EAST.

³⁴⁰ M.; ef. Ath. Mill. 1841, Operant. 1912. 240 M.; ef. Ath. Mill. 1227iii. 274.

W The Local Terms resumed to the Macedonian Investment and the N.T., Cambridge (Univ. Prem): 2s, net

¹st De Mecedonum servis, Halls (Niemeyer):

¹⁰ R.C.H. EXXVIL 117 E., 447.

Ist Glotte, vi. 74 ff.

to for And axil 225 C.

No 1644 250.

^{*} Rose El. Gr. 22vl 205 ff., floy, Ep. 1.

¹⁰⁾ Kee, Arch 221 340 R.

H Rot. Ep. 1 309, 405, 11 158.

and N. Valid's discovery in Servia of three further Greek inscriptions 123 must not be overlooked. A golden phiale recently found in the tomb of a Scythian king in southern Russia bears a Greek inscription published by A Bohrmskoy 254 and an important correction has been made by B Latyschev in a Bosporan text: 135 of far greater note, however, is the appearance of a masterly work on Scythin and the Greek cities of the Scythian coast by E. H. Minns, 195 who in an epigraphical appendix (p. 639 ff.) prints in full the texts of seventy-two Greek inscriptions found in, or important for the history of, the district in question, besides referring constantly throughout the work to this class of evidence. 157 The most important finds from Synta, including Palestine, are those made at Bosra, 138 where the members of the Princeton University Expedition copied twenty-three Latin and sixty-five Greek inscriptions, of which latter twenty-seven are republished; often with valuable corrections, while thirty-sight are new. A number of Greek and Jewish names from tombs near Jerusalem. 13 a new epitaph from the Decapolis 100 and a group of texts copied east of the Jordan by G. Dalman ba should also be noticed is as well as J. Offord's note on Lysanias, tetrarch of Abilene, in E. Schwyzer's correction 101 of the Nebi Abel inscription (Dittenb. 0.G.I. 606) and F. Bleckmann's useful summary of the Greek and Latin inscriptions from Palestine published in 1910-12.180 Of Egyer and Nubia I need not speak since it would be idle to recapitulate here the Bibliography which is to appear armually in the recently founded Journal of Egyptian Archicology, 100 No fewer than a hundred new Greek texts from the CYBEXAICA, mostly collected by the late H. F. De Cou, have been edited by D. M. Robinson, in together with numerous corrections of inscriptions which appeared in the C.I.G., while from the fifth catacomb at Hadrumotum a Christian epitaph of an immigrant from Smyrna has come to light 168

MARCUS N. Tob.

218 d.

¹³ Jahrest, ar. Beiblatt, 218 E.

in flee. Arch. wallt 181 ff., cf. 183, 188 f.

is Berk phil. Wach, xxxiv, 768

in Septimen and Greeks, Cambridge (Univ. Prents, dan

HT E.y. pp. 500 ft., \$58ft., 429, 466

Promition Univ. Arth. Especiations to Spron, Div. III, Section A. Part 4, Layden (Brill)

is Her. Ridl. v. 283 ff.

¹⁰⁰ Pal, Espl. Final Q.S. 1918, 199 f.

¹⁰ Zoin, A. d. Palantina-Ferrina, XXXXI 249 ff.

are I do not know Nie Sale, with 19, 918 IL W Pal. Epil. Find Q.S. 1913, 147 f.

of HA Man lavail 684.

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⁵⁰⁰ L 140 fL

in Am. Journ And svil 157 H. 304 L.

¹⁰⁰ Bull. me. femin, des fondles archôt. 1912,

³⁷ ff.

NOTICES OF BOOKS.

Foullies de Vroulià (Rhodes). Par K. P. Krson Pp. 275; Map. 47 Plates and 139 Cuts. Berlin G. Reimer, 1914.

This is a magnificently produced instalment of the recent Danish Expedition to Rhodes, detailing what was found in a small seventh century u.c. settlement situated in a little plain close to the southern extremity of the island. Judged by the number of burials, this settlement was in existance only about a limited years, its origin falling about 600 s.c. The remains excavated consisted of a small shrine which yielded terracettas and other cult-objects, and of over a hundred graves, of which farty three were these of children, mostly interred in jars. From these graves a rich series of vases was recovered, illustrating Blochem tabries of the seventh century, with a proportion of foreign importations from Cypros. Nankratia, etc. These have bean very minutely studied by Dr. Klinch and arranged in series, and his work will be of great service to students of the still imperfectly known caramies of the Ionian and Doro-Carian areas. Incidentally the evidence here collected tends to control the date secribed to the early objects excayated in the Ephesem Artemberum in 1904-5, and also the existence of Nankratis as a productive Greek center prior to the time of Amusts. The author deals at laugth with the typical motives of Rhodian decoration and attempts to trace their local origin. For various reasons he ascribes the impiration of the animal and bird motives to south western Asia Minor and the Taurus, where Mr. Selone has assured him that the regigner or wild gent, as distinct from the dwe, has always ranged, as well as the goess-like shell-duck, snother common motive. When one books over the fine coloured plates have devoted to comparatively common types of vace, one wishes there were a Foundation Carisberg in this country to pay for similar samptaons D. G. H. illustrations of a very great unity objects at present unpublished.

Demosthenes, and the Last Days of Greek Freedom. By A. W. Pickamo-Canamon. Pp. 512. 29 Illustrations and Maps. London: Patnam, 1914. 50.

The appearance of this volume not only serves to redress the anequal halance between Greece and Rome in the Heroes of the Nations acries, but it fills a comparison gap in the list of English haverreal works on the hearth century a.c. The clitef qualities of the present book are a limit and unprotestance style, a sound but unobserver equilities, and an admirable fairness of unint in dealing out presse and blame both to Demosthenes and to his opponents. As examples of this judicial attitude we may quote the chapter on the working of the Atheneau constitution, the definition of Eulaina' policy (up 156–151), and the summary of the discussion on the superproficia (up 202-298). As regards the central character of the story. Mr. Pickant Cambridge will appear to some of his readers to have overrated the wisdom of Demosthenes' scoonling spirit against Maccdon. It is

sites all an open question whether the 'political liberty' for which Demosthenes fought, i.e., liberty for the bigger Greek sities to oppress the smaller, and for all to drain the pation's life-blood in smiles interactine war, was preferable to a federation under the liberal conditions imposed by Philip. On the other hand willing assent should be given to the vindication of Demosthenes' purity of motive, which is convincingly aphald against the loose immendees of amount and modern critics. A few criticisms on points of detail may be offered here. The assertion that Antiphan received 20 per cent for his foreness speeches (p. 27, a. 5) has early conjectural value, and great uncertainty attaches to the estimation of the Second Confederation's revenue at 330 talents (pp. 93-4). The balance of evidence indicates 349, not 5510 a.c., as the date of the First Philippio, and the transference of the stege of Methons from 353 to 355 a.c. has little to commend it. But as a rule the anthor has made very sure of his facts, and where the facts cannot be scentained in its always crupulous in stating his case with proper reserve. The illustrations are well choom, a large proportion of them being derived from recently exercised sites.

The Composition of the Hiad. By Austra Sarra. Pp. 225. London Longmans, 1914. No not.

The object of this essay is to demonstrate that the Hind of Homer at one time consisted of 13,550 lines, unither more nor less, divided into furty-five sections of 300 curses each. To resture this original, 2.103 varses have to be our away. The largest excision is that of K or the Dolonesa, which is removed bodily, but after insuls pasts treatment.

To illustrate the procedure adopted, a case may be taken which is deemed so obvious that it is disposed of in a migle page, -a action of 918 lines, metading the whole of * and the first 21 lines of O. It now neckes Mr. Smyth's 41st, 42nd, and 43rd lays of 300 Know each, the 18 lines to be rejected for that and being found at once in a 'reminisceme' of Nestor's 4 629 646. But (1), we also 21 lines of 0 the chan of the 'Adas or the process to the surper! Many would say the latter unquestionably, and for proof would hardly respons to go beyond the opening words of D. Acro & eyes. (2) The last of the 18 lines out out, 646, does not bolong to the roumneceure (3) What about the other lines and groups of lines in & to which the critics have taken most serious objection, for instance 92 and 560, of very doubtful sutherity, and the three contests in 798-8837 (4) Is it likely that a true of 900 lines would escape with contamination at only one point, if the press was open to manipulation by Pick-Posts and Bearbuters | And lastly, (5) the first of the three lays if the description is allowed and in the course of the engineration of the compensors in the chariot-war, and the second in the middle of a colloquy, the third actually beginning with the line, on one courgras farii stephere spergids. limitation must be rejected absolutely.

And the whole adhams has this prime defect, already noticed in the dissection of \$\varphi\$, that the mass of interpolations which have been, so the authorities think, established in any given area are left unnoticed. A critic of the attrictioning school, a Fick, a Heunings or a Robert, would easily find passages as worthy of the distinction of athetesis as those effected by Mr. Smyth to indee up the tale of lines which he must abandon to get the round 200. As regards the Breatment of individual cases, too much importance around to be attributed to linguistic feats and repetition, but generally the discussions are characterised by ingenity, moderation and good same, and in several instances the defence of parts of the posm against the disruptionists is admirable. There is a viadimition of the Problem which seems to be as good as anything eyer written about that episode, and excepting even Andrew Lang a exponition in his World of Hence.

But in regard to the main thesis, the book is quite unconvincing. Many, we fear, will close it with the Zahlenspieles of von Halm, the strophists, Fick and his pyramidal Mema, and Ludwich and his Humandaus, but it is better than these. Others will doubt

less find the presemption against an original construction in lays of exactly 300 lines strong enough to warrant the rejection of Mr. Smyth's scheme out of band. But he has something to say on that point, and in our ignorance of conditions which obtained in the early days of the opic, it is dangerous to dogmatics. It is enough to say that the detailed proof fails. We had better rest content with Disrup's suggested limits of the various thappendies as they were, it is known, recited.

An index would have been a useful addition, especially as the lays are not considered in the order of the text. On p. 183, 'p. 184' should apparently be 'p. 218, 'A. S.

Homer, Dichtung und Sage. I.—Hias. Von Enten Berne. Pp. 374. Leipzig: Tenbuer, 1914. M. 8.

It is difficult to review a German book on the morning (August 29) when we hear of the mack of Loreain.

Herr E. Bothe, who has been active in more than one province of philology, and has started various theories, of no great probability, by which Homer is affected, now comes forward with a planautly written and well printed book on Homer hinnels. He advances that the Riad in we have it is the work of a sectly-century Athenian past who enlarged an original possu on the wrath of Achilles of about 1500 lines by the addition of various 'Kleinopen' and parts of more. Personally I regard this statement as inconceivable, and the argumentation on which it is based as a more illusion. The hook however deserves to be read; it displays many tasts, moderation and even summon sense than we are accustomed to, and is certainly the best German book on Homer written for some while. It is nearer the truth than enything published by Baixner, Drerny, Fineler or Romer. In fact, Bethe's conclusion expressed as a formula, 'the Read is the result of a great artist working upon traditional material, is acceptable; unfortunately, this application given to the principle coults in the obvious absurdity of the greatest architectonic poet of the world being huiden in the period of Solon and Theornia and imposing himself on the historical memory of the Greeks (which was quite a long une), as three or four hundred years older and the father of a school whose latest mumber (Eugammon) wrate about the time that the real Homes was getting born. Who was this sixth-century genius! Someone, at best, of the calibre of Onomacritus, whose style even Pausanias could distinguish from the real Musseus, and who could not forgo an eracle accessfully. Transfer Herr Boths's architectonic Homer from 550 to 100, and he becomes credible. Along with this general want of perspective goes the datail that the text of the Riad and the Office descends from archetypes of the exth contury. This is the result of the belief in Athenian interpolation, which it is apparently impossible in extirpate from people's mirals. Here Boths may fight the matter out with Mr. Bollig (das Journ Phil, 1914) who holds that our MSS are children of an archetype of mar. 150).

The analysis, of which the book commute, is acute, though parriers in places. Book IX is made to be original; the aixth-century genius fabricated Book XIX. The next solumes may afford better food for controversy. There are some curious errors in spalling; p. 41. Beahe di Cattaro , p. 51, 'Vindobonaense'; p. 281, 'Verral'; p. 360, 'Guilb. Murray.' Professor J. A. Scott is sharn of his first initial; 'Flanmans, 'Rissof the Greek Epik,' are not English; 'treffsicher,' p. 50, does not seem German; 'Twi.,' p. 51, is not the right abbreviation for Townley.

T. W. A.

Studies in the Odyssey. By J. A. K. Thonson, Pp. 250. Oxford: Clarendon Press, 1914. 7c. 6d.

Mr. Thomson, who eads under the colours of Miss Harrison and Professor Murray, has given a convenient summary of his book in his preface. The 'story of the Odyssay is the history not of a man but of a divinity.' Ulysses to 'in certain respects a double of Autolyens, a Bocctian; he is 'one of those divine supernatural beings, made familiar to us by the Golden Boogh, who are thought to die and dome to life again.' Penulops was originally 'a water-fowl divinity connected with the spring Arno, near Mantinoa.' The story was brought by Bocctians or Minyans to the Morea and themse to Ionia. The Achaesne came from the north-west. Homer is a common noun (daypeer). This is sufficient as a specimen.

Mr. Thomson evidently likes his subject, and writes agreeably. He has chosen a theory which has spent its force and developed it. I am afraid, without judgment or suff-criticians. He has constructed a flimey building on a foundation of sand. Instead of gathering passages and references and so increasing this fresk-literature, he would have better spent his time considering the validity of his teachers' premisess. I do not think the Press of my University should have accepted this book.

T. W. A.

Aus Platos Werdezeit: Philologische Untersuchungen. Von Max Pomanz. Pp. 428. Berlin: Weidmann, 1013. M. 10.

Dr Polilenz presents a detailed account of the earlier Platonic dialogues. He groups them, according to the order of composition, as follows—(1) the Socratic Period; Apology, Laches, Charmidea, Lesser Hippinas, Professoras; (2) the Crisis; Gorgies, Meno, Republic (first edition), Memoranas; (3) the new Weltmanhauma; Phaedo, Phaedous, Lyris, Symposium. He thinks that there was a first edition of the Republic containing only the political ideas of the dialogue which we possess, and this hypotherical first edition he connects closely with the Memorana, regarding the two dialogues as together embodying Plato's criticism of Athenian politics. In the dectrine of Type propounded in the Phaedous and Symposium he sees the programms of the newly founded Academy. The Resister Hippins is apprious.

The sub-title of the book, 'philological empiries, is somewhat misleading. The author's method is certainly less purely 'philological' than that of many other writers on the subject. Considerations of style and Specializable do not, as we should expect, play a leading part. The relative dates are chiefly determined by historical allusions or interrelations of decirine between the various dialogues. However, if 'philological' is the alternative or 'philosophical,' the use of the term may be justified for the book nucleon no attempt to consider or appraise the teaching of the various dialogues on its own marits. Since it is difficult to give an intelligible account of a philosopher's development without essaying an interpretation of his philosophy, this method of procedure is open to criticism. The fact thist it is fashiomable does not entirely excuse a

The enquiry opens with a short chapter on the question of the historical truth of the Platonic dialogues. Dr. Pohleus seeks to sottle this vexed question by general considerations. He tries to show what would be the status of Socratic dialogues in Greek inerature; and what kind of truth the Greek reader would expect. He thinks they care a new literary form, half memoir (like those of Ion), half debate (like those in Europides' or Ariscophanes' plays and Herodotus' or Thucydides' histories). He is sure that the reader would take it for granted that the views established were those of Plato, expecting at the same time the portraiture of the characters to be essentially historical. He thus binagines Plato to have had a double object in writing the dialogues; (1) to expeated his own years; (2) 'to exhibit the real Socrates, not by photographic reprediction of particular scenes but by a situation—freely invented, perhaps—in which his whole mature stood out sharp and clear.' It seems clear that these two aims are not capable of

simultaneous realization. The views expressed must affect the reader's sessimate of the character of the speaker, especially when the speaker is a philosopher, and the whole nature of Socrates cannot attend on a sharp definition if the intellect is that of Plato. But on these premises Dr. Pohlons feels himself curified to untribute to Plato any and every decrine which the Socrates of the dialogues accepts. Its acceptance by the Platome Socrates proves its acceptance by the historical Plato. The only legitlicate question is whether it was also accepted by the historical Socrates. What is meant by calling the earliest dialogues Sociatio we are not told; but presumably these are dialogues in regard to which the question above stated can be answered with a general affirmative

From this it will be seen that Dr. Poblims maintains, even possibly in an exaggerated torm, the old-feshioned view of Plato's methods on which the combined philosophy and philology of St. Andrews University have recently declared relamiless war. It mannet be said that the hypothesis receives additional confirmation or even emerges unscathed in credit from the hands of Dr. Poblenz. It leads him to treat Hippass as a fashimable rival of Plato (pp. 69-70), to regard the Protogorus as essentially a criticism of the sophist whose name it bears, and its Hedanism as expressing Plazo's considered opinion at that date (pp. 92, 103), to explain the Meno (pp. 169-70) as a reply to Gorgias' reply to the Gorgius (of which, he suggests, Plato may have sent his elderly rival a copy). It is true that one tradition makes Gorgian only 83 when Socrates died, that he is said to have lived to 110, and that he was a byword for senile vigour ; but a controversy between a man of 90 (or more) and one of 25 is a strange phenomenon, and why was Plato so preoccurpied with past generations / Surely thought had moved somowhat since Hippins, Protagoras, and Gorgas visited Athens, and the question whather those sophists could or could not educate the young must have become rather academic in the interval. The truth here is unhambtedly with Professor Burnet. It was not Plate but Secretar who was the rival of the Sophists; and Dr. Pohlenz is the victim of the dramatic illusion produced by Plato's art. He is to be added to those 'many writers' of whom Professor Birrier save that they 'speak as if the first half of the fourth century can concurrently with the second half of the lifth (Phasde, Introd. p. uzxiv).

Dr. Pohlens is nevertheless able to discern 'Soemtie' and 'unscendie' classents in Plato's teaching, attributing what is unsceratio mainly to the influence of the Pythagoreans, but partly also to that of the medical writers. The theory of Forms as the exception. To it he assigns no provenance, considering it to be Plato's own invention. In all this Dr. Pohlens is following more or less carefully in the footsteps of other scholars, and it is bard to find anything novel or distinctive in his point of view. In his hypothesis of an earlier, purely political Republic, perhaps he is original; but that anyone who has road and tried to understand the Republic should adopt such a theory passes compre beasion. In order to assist the hypothesis Dr. Pohlens has to argue (here, on fortunately, not alone) that the tripartite psychology is an interence from a repuritie state; and in order to account for the amissions in the recapitalistic at the beginning of the Timmeus he is led to invent yet a third reduction of the Republic in which once more the political views are isolated from the test. A hypothesis so change as surely soft-condemned

We have, then, little reason to recommend this work to English readers. In principle it seems to us ill-conceived and erroneous, and in detail unreliable through lack of insight and failure to follow the movement of philosophic thought. It seems to be exceedingly difficult to write a good book about Plate: at least half of the many books which have him for subject could well be spared; and we cannot find in Dr. Poblenz' work enough help in the interpretation of the Dialogues to withhold as from passing apon in the same varilist.

The Hellenics Oxyrhynchia: Its Authorship and Authority By E. M. Warken. Pp. 149, Oxford Clarendon Press, 1913, 5c.

The authorship of the fragment of a Greek historian discovered as Oxychynchus in 1908 has been the subject of much disjute. The period dealt with in the took to which the fregment belongs has usually been assumed to be between 411 and 364 n.c., but, as Mr. Walker shows, these limits are by no means certain. It is clour, however, that the events of the period were described on an extensive scale. The most important information given relates to the sampaign of Agestlaus in Asia Miner, the naval operations of Comm off Cannus, and the Constitution of Bosodia. Mr. Walker's opinion is that the fragment belongs to the XVIIIth book of Ephorna. He shows that, though the history of Ephorus was a general one, there is no reason why he should not have described events with great fulness as he approached his own times; that there are striking coincidences of language between the new historian and Diodorus, who draw largely upon Ephorus for his information; that the interest displayed in the topography of Asia Minor, the campaign of Conon, and the affairs of Bosotia is quite anitable to Ephoras. Another very strong point in favour of Ephorus' anthorship is the style, which is monotonous and frigid to a degree. Mr. Walker argues his case very acutaly, and though the reader will hardly be convinced that Ephorus must be the author he will certainly find many reasons for believing that he may be. Some of the reasoning depends a good deal upon assumption, e.g. that relating to the probable length of a book of Ephorns's history, while the coincidences of language with that of Diodorus are not we close as to preclude the attribution of the work to an anknown fourth century historian who horrowed from Ephorus, as did Diodorus at a later date Cratirums is too slaulowy a figure to enable us to express an opinion about his claims with any confidence, and the style and political tembercies of the fragment are certainly against Theopompus. Mr. Walker deals incidentally with several interesting points. s.g. the rival elsims to credibility of Xonophon and the new historian (who certainly did not barrow from Xenophon), the Bosotian Constitution, the question of the date to which Enhorm carried his history and the continuation of the work by his san Demophilus. The suggestion that Demophilus carried on the work to 341-0 because that date is a generation of thirty years after the battle of Lenetra is an interesting and plausible one. The book is obviously the fruit of very caroful study and forms a valuable contribution to the literature on the new historian.

The Archaeology of the Old Testament: Was the Old Testament written in Hebrew? By Erwand Naville, Pp. 212. London: R. Scott, 1913. &c.

A perusal of Professor Naville's remarkable volume raises the question. What is archaeology? For of archaeology in the ordinary access there is little in the book. Professor Naville takes no account of actual archaeological discoveries in Palastine. One expected that a work, written by an archaeologist of repute, which Professor Naville is, on the Archaeology of the Old Testament would have been chiefly concerned, with the question of how far the new discoveries in Palastina affect the question of the age and growth of the Habres scriptures. But we find nothing about this matter the book is concerned solely with theories of the supposed internal 'archaeology' (if we may use the word in this sense) of the Old Testament, and has nothing to do with any of the questions that interest the ordinary archaeologist, with the sole exception of the Aramaic papyri from Elephantine. Professor Naville's work is merely designed to prove the thesis that the Old Testament was not originally written in Hebrew, but in cumoiform, and by Messe personally. Misses inscribed the whole of the Pentatench on clay tablets, and this canciform original was afterwards transcribed into Aramaic, and that, eventually, into Hebrew. This is a specious theory which might obtain support from

recent archaeological discovery if we choose to interpret this in a way favourable to the theory. More than this we cannot say, but must leave Professor Naville to the Higher Critics, with a recommendation to mercy.

Lo Consul Jean Giraud et sa Relation de l'Attique au XVII Siècle (Mémoires de l'Académie des Inscriptions, XXXIX.) Par Maxter Contrason. Pp. 57. Paris Imprimero Nationale, 1913. 2 fr. 60.

All Athenians, by birth or adoption, should welcome this addition to their guradoypopia, discovered at the Bibliothsope Nationale among a series of documents formerly belonging to Fourment, and originally collected by Nointel in connexion with his embasy and voyage to the Levant. M. Collignon has already published (C. R. Sc. Inwire., 1897, 57-71) from the same collection Giraud's account of the antiquities of Athons, which on account of the consulerable quantity of contemporary material already accessible (much of it durived from thinned himself) affords little new matter of value. For the life of eventeenth-century Athens and the state of Atties, on the other hand, we have little information outside Spon and Wheler, and the report of a consul and a resident carries more weight than that of the most intelligent tourist. We have now for the first time raliable and detailed statistics of the population, revenues, and commerce of Athene and Atting and a full account of the Turkish local government of the period. A point of special interest for success history is to be found in the fact that the main route from Athens into Bocotia was in the seventeenth century the new abandoned pass of Phylo: there was even a caravanaers for travellers below the fortress. To his description of the latter our consul aids a popular account of its origin. This is an interesting variant of the 'Rival Lovers of the Princess' thome, which is told also as far afield as Asparshas in Pamphylla.

The Kings of Lydia; A Rearrangement of some Fragments from Nicolaus of Damuscus. By Lengu Alexandens. Pp. 61. Princeton University Press, 1913.

The main object of this dissertation is to simplify the traditional story of the Lydian momerchy as recorded in Xanthus and Nicolas of Damascon. It contains several new suggestions of molecularly value, e.g. that the Tylonidae of Nicolas fr. 40 are identical with the Heracleidae of Herodotta, and that the town of Ascalon and its sacred point (Xanthus fra. It and 33) are none other than Dascylium and the Gygasan lake. The attempt to identify the three kings named Meles is seductive, if not conclusive. On the other hand it is clearly average to identify Advances the unals of Crossus (Nicolas fr. 63) with Advances the brother of Crossus (Stephanus a.v. 'Advances and the contemption of the combined Meles as a usurper is equally untenable; as Reslet has pointed out, the story in Nicolas fr. 40 losss its point unless Meles is taken for the legitimate crown princes.

Studi siciliani e italioti. By L. Paueri. Pp. 356. Florence: Seeber, 1914. L. 12:

This volume is the first of a new Italian series in which important contributions to the study of Amsont History and Classics will from time to time be published. Prof. Parett, who is joint editor with Prof. de Sanctis, has given the series an excellent start. His book is a collection of essays dealing mainly with the critical years of Sicilian history at the opening of the lifth country a.c. Much fresh light is thrown in these articles upon the viciositudes of the conflict between Grocks and Carthaginians, and upon the growth of the two rival coalitions which brought on the great battle of Himses. Of Prof.

Parett's new conclusions some low are much open to dispute. The highly constructive arguments with which he seeks to transfer the date of Happocrates' death from 401 to 485 n.c. do not suffice to overthrow the clear evidence of Armsolds in favour of the former year. Still less can we accept the reasoning by which he would perpend the testals of Himers to 470 n.c. The parallahems between Himers and Platers which he detects in Planta and Aeschylus are very for fetched, and he arrampt to explain away the synchronism between the compalge of Honers and that of Thermopylae-Salama as a fusion designed to exonerate Gold from the charge of not having swisted the homeland Greeks is quite unconvincing. But for the most part his reconstruction of the illatory of 510-480 s.c. is well supported by the evidence of texts and immunicated which he has present every available acrep into his service, and a priors if its highly probable.

tell the other masys we may here mention honoric evens a chapter on the coins of Selimas, and mather on the history of Gela. A short across in devoted to Theorems Prof. Pareti contends, not without reason, that Theorems was a native of Megara Hyblans and a contemporary of Gela, but forgots to ask whether Theorems was a men, in whether he was a syndicate. A shapter on the chronology of the Greek colonies in Souly is charify remarkable for the use made of patters originate lit favour of a very early slate for the first hundritans. At present the provounces of proto-geometric and proto-Curinthian values is too uncertain to yield any sure hasis for the first problems involved.

Prof. Paceti's book those not make easy rending, and many of his arguments are toughly breaked. But this is hardly a matter for commune. It is rather an index of the conscientions and closely rentored character of his work.

Les Empreunts de la Bible habraique au Grec et au Latin. Par Macanne Venses. Pp. 256. Paris: Isroux, 1914. 7 fr. 50.

Much has been written of late as to the influences exercised by the Orient on Greece, M Vernes instances Il Lewy's 'Die Semitischen Fremdwörter im Grischischen' (Berlin, 1895). But he halds it necessary to unpure into the other aids of the problem. via the industries of Greek on Helines. The subject has been exhaustively treated for the post-Biblical Hebrow in a series of works culminating in S. Krame' Greenische and Lateinmein Lehnworter im Tahund, Midrasch und Targum' (Berlin 1868, 9) M. Vernes, however, donle with the Biblical Hobrew. In this book he arranges, alphabetically. about 300 Hibling words, which he man or less positively traces to Grock or (less freely) to Laim originals (he suggests Greek originals for 320 and Latin for 40 of these words) He does this with a full consciousness of the atribus made in Assyrialogy, which has sumption parallels to many previously unexplained Hebrew words. In fact, M. Vernes may be mid to be an opponent of the pan-diabylonium, now so current among Biblish solidars. It is generally emoded that Greek and some moud into the Helicow descalablery after the composite of Alexander Renna had suggested that at an earlier age the Phillistmas, who carried Crutan civilisation to the most of Palestine, might have brought some Greek sweds with them. More generally, M. Vernes thinks that such Greek terms may have been conveyed to Palestine through commercial intercourse. His blentifications are sometimes startling, as when he not only compares but actually the (see the consenants of the Hobras hakanr ('to be wise') from the Greek yeys (wremeas); or selem (image) from ayohno; quital (assembly) from exchanic; or radials from doe; or yand (Jubilee) and dath (law) from the Lann Jubile and collectum! or kuttenoth (fumis) from the Greek greet; or millah (word) from kake. On such suggestions, and many more of the same type, it is whiles that scholars must exercise the namest caution; though in cases of grave doubt, such as the origin of the Hebrew

kernb (chernb), one might be more ready to consider a Greek origin (you's—yperos) is similarly with rayin (wine) which is here, and has been by others, derived from elect.

M. Vernes seems to work on the principle that when Assyrian has failed to provide a satisfactory origin for certain Helmew words (such as quite, a coin, and sharble, a sceptre), a non-Semitic source is probable (in these cases sirry and securous). This theory, together with its ingenious exposition in M. Vernes's rolanse, deserves serious, though extremely cautious, consideration. Some Helmew (Aramaic) words such as the samponys (expectation), the paratrin (\$\psi a\psi \cdot \check \text{prob}), and the kithers (sifigur) of Daniel have, of course, long been recognised as very probably Greek. But Daniel belongs to the Maccabasan age (c. 165 m.t.)

Pausanias in Olympia. Von Abous Trempelesseum. Pp 104. Barine. Weldmann, 1914. M.3.

A such of study of the topography of Olympia as described by Pausaulas. The author's object is to rimited the authority of the latter and to protest against the tendency of archaeologists to disregard the literary evulence. Pausaulus risited Olympia in person: he describes what he was himself or was told by the local guides, he is not indulated to any previous writers, much less does he morporate extracts from them in his work. When we possess an independent work of such authority, excavations must be interpreted in the light of the written evidence, not see were. Difficulties are due

chiefly to the misunderstanding of the text.

The author has no difficulty in establishing his main contentions, but his discussion of topographical difficultues suffers semetimes from the intentional onlission of the evidence of the spade. Most of his conclusions are sound but perhaps less original than he supposes. He appears to have arrived independently at the explanation of the Theorem which was published by Louis Dyer in rol xxviii, of this journal. But his breatment of the Treasuries is quite madequate. He dismisses them in a few lines with a single emendation, enthaly ignoring the difficulty of identifying the ten treasuries onumerated by Pausanias with the twelve foundations revented by the excavators. In locating the alter of Zeus between the Heraton and the Pelopion he is hardly true to his own principles. Not only thes he give a somewhat unnatural meaning to the words in which Paramies describes the position of the datar but he ignores the statement of Palisanias which he quotes immed in another context that the Heraion and Polomon are sufficiently far apart for statues and other offerings to be placed between them. If there were statues and other offerings in this narrow space, there was certainly no room for the great altar also. If the altar stood there, why does not Pamanias mention it Instead of the statues | Again while Trendelenburg rejects the usual identification of the Theckoloon with the large milding S, of the Palacetra, he makes no attempt to explain the purpose of this building. Nor is it clear from the existing remains how the Threekoleon can have sood show to the Pytancion.

E. N. G.

De Veterum Macarismis, Scripsit G. L. Drammer, Pp. 7L (Religions-goverheitliche Versuchs und Versuchsiten.) Giessen: Topelmann, 1914. M. E. 30.

An interesting little work, dealing with the meaning attached to such phrises as happiness or bliss by the Greeks and Romans; the views of Jawish and Christian writers are not included. The first chapter deals at same length with the words employed to derobe these bless tracing in detail the changes in expression through literary history. The second chapter, abandoning the chronological order, ranges under groups the ressons for which men have been pronounced blessed or fortunate by the posts. The compilation, as in other works of this agrics, seems both complete and accumite.

De coronarum apud antiquos vi atque usu. Scripsit J. Kochina. Pp. 98. (Religiouspechichiliche Versuche und Perucheiten.) Gressen. Popelmann. 1914. M. 3, 40.

While much has at various times been written on the subject of the crowns of the ancients and the occasions on which they were worn, the reasons for the practice have hitherto largely escaped investigation. This consision is remedied in the present work, which forms part of the well-known series of Religious pathichticles Veranche and Parphenias. The practice is here traced back to the buildings, an enclosure; and while this, the primary anomaly, is derived from the form, the use of cortain materials, as edies or larged or the later impations of these in metal, can also be traced to similar prophylaris ideas. The second and longest chapter groups the various instances of the nest of crowns in ancient life, and traces the circival in these instances of the primitive ideas. In canclusion, the development of these ideas and of the use of crowns is briefly sketched through the Christian centuries down to modern times.

Intermediate Types among Primitive Folk. By Edward Carpester. Pp. 185. London: George Allon, 1914 4s. 6d.

The House-Door on the Ancient Stage. By W. W. Moosey, Pp. 105, Baltimore; Williams and Williams, 1914.

This dissertation for the Decter's degree of Principle University trans number two bould the problems commented with the use of the door in the background of the ancient stage. In the first chapter the author attacks the theory of some scholars that in Plantus and Termice there was an inner and an outer door, the latter open by day; he shows that the door was single, usually closed, and that the different words or not, force, outline are applied to it without distinction. The practice of knocking at the door and the secularly comployed to donote the set are next examined. In the third chapter it is shown that Plantuch and Holladiae are mentaken in supposing that an actor knocked on the made of the door before passing out on to the stage. The stage door is next shown to have opened outwards. The fifth and largest chapter deals with the general one of the back door and parodol on the stage and gives a full list of the expressions and phrases used in this connexion. The writer in addition to the literary material has made full use overwhere of extant archaeological evidence.

Inscriptiones Gracone. Collegit Orxo Kans. Pp. xxiii +50 plates. Boun.: Marcus and Wober, 1913. M. ft.

These who follow the progress of the great Berlin Corpus of Jaszendianes Western connect fall to be struck by the tendency there shown to attach less and less importance to the reproduction of inscriptions in "appraphies" as well as in the primary cursus type, mit only become of the grouter bulk and cost entailed, but the because it appears to lay claim to an accuracy of representation to which in reality typography cannot accura-At the same time the value of the photograph and the squeeze is heremingly recignised. since they alone are not subtilisti the riptioning longs imports. It is at an opportuni mount, therefore, that lette Korn has milted, as Volume VII. of the Tabula on assen addresses, published under the direction of Time Lastzmann, a series of fifty plancontaining over 120 inscriptions, ranging from the willest times to the fourth contars of our ara. The reproductions, which are made from photographs taken from the stones thomserves (except in four cases, where excellent equeezes have served the purpose), are for the most part medde of what such illustrations should be, and affirm the student for whom seems to inscribed above to hups within an invaluable opportunity of practice in resulting original Growk documents and of familiarizing himself with the main types and mediacrations of the opigraphical script. In several respects it would be possible, though this is not the place, to writting the selection made, but up two scholars would agree in their choice , ner mest we fraget the practical difficulties involved in such an undertaking, and the editor's statement that a munior of photographs which he had intended to Insert proved to be unanitable for reproduction; and had to be replaced by others of less merced

The last rivers, which is in Latin, commins a concess description of the plates, ingether with beinf, but useful, hibliographies of introductory works on Grack aphyraphy and of standard collections of inscriptions a conspectus of the plates and a table of comparance. In is here that the work most requires revision. For example, the stone illustrated in the upper pair of Plate 16 is identified (pp. ri. axii, 12iii) with LG. 1 17th, Dirichle Spl. 20, and Nachmanson, Host, all Inche, 12; in fact, it is L.C. is Supply 179 to be, a totally different document from LO 1, 179, which is reprinted by Dittenberger and Nochmanson, local citi., and it dates from 431-0, not as stated on Plate 16) from 435-2 s.c. Again, the value of concordance is no imported as to be of little use to padge from it, only als texts from f. 6. L and L Suppl. are here Illustrated, while in reality there are rune, and the same table cents up fewer than six of the inscriptions found in Dittonic Syd. , viz. . 33, 158, 696, 725, 737, 822. With a little care, however, these and other such defects can be channed in a second chition, and when the time comes for preparing that, we would wit the rillion to introduce two further changes. A brief title should be given to each inscription (at any rate to the more important among them) to indicate its nature and interest, and secondly, the tack of every macripaion abould be printed in ordinary type, as has been from in three or four cases, as that the student may be able to about the correctness of his readings and restorations. and to get help to his difficulties, even if out of reach of a well-quipped library containing all the books to which he is lines interced. If it by objected that this would anduly increase the size and price of the book, we would suggest the emission of the Tubuldrian Omes-the and of datails like to 0,535, I. supra 0,850, mira 0,873, cr. 0,155 (lineras a. 0,055 0,000), which are of fittle practical interest to the ordinary student. But m spito of those defects the book deserves, and will gain, a place on the abelies of all who are interested, from whatever point of view, in the study of Greek inscriptions.

De l'Aspect verbal en Latin ancien et particulièrement dans Terence. Pp. 478.

De la Phrase a Verbe Étre dans l'Ionien d'Hérodote. Pp. 114. Par D. Bannazzazz. Puris : Champton, 1913.

The most difficult problems in Latin grammar are connected with the verbal system. The study of what, after the practice of Sixvenia grammarians, is called the Aspect of the tern is in Latin complicated by the profound modifications which that language has introduced into the old tome system. Perfect forms like useming, belief and present stams like sienal, layed, have for the most part disappeared, while on the office lound. the three conjugations of derivative verbs show few if any traces of the old stem excitations. The result is that in Tatin the Aspect of the verb must be left to be half it-I by the context, or is shown by the use of propositional prefixes. M. Barbulance's general conclusion is that there are in Latin two, only two, especie, the imperfective and the perfective, each of these attaching predominantly to particular nenses. The actual facts of the language, collected mainly from popular sources, are treated in great detail, and, on the whole, with skill and judgment. The only serious seakness is on the compagative side. Sanskeit, Slavonic, Greek and Germanic are referred to frequently, but the author has nefertunately, neglected Coltic which in any comparative treatment of Latin syntax emists occupy a promitions place. Hims it may be united that the use of the propositions in a after, spaces and the like is illustrated by modhing an well as by the use of the same propositions in Old Irish. A knowledge of this latter language would also have saved M. Barbelonet from some perplexities; as that on p. 254 in connexion with the plantity of see and man.

The same author's work on Herodottis deals with the position of the different openhers of the clause in characteristic including those in which the work is not expressed. It is of interest to observe that, except to set phrases. Herodottis does not, as a rule, disposes with the copula. The latter is ordinarily attached to the predicate, and the normal order is Subject. Predicate, Verb, Other arrangements (Predicate, Verb, Subject, Verb) unply some variation of some or amphases.

The Ottoman Empire, 1801-1913. By Winaras Minton (Combridge Hadisacol Serial). Pp. 517 + 547. Combridge: University Press, 1913.

All students of the Eastern Question in general or of oxidern Greeco in particular will be grateful to Dr. Miller for this extremely compressed but clear account, derived mainly from official sources, of the demandement of the Turkish Empire during the pass century. The fert includes the histories of the aerablishment and growth of the free nations of the Balkini pennissia down to the soul of the recent war, with a select classified lith-lingraphy for those readers who wish to go further into details. The four maps, illustrating the Ottoman Empire in 1801 and the frontiers of the Balkini pennisula in 1856 and 1878 as projected by the Treaty of S. Stefano and as carried out by that or Berlin) are specially welcome and instructive. The captions will object to the title of the book—litered, we believe, in the Greek edition—as unislanding, since the codemic partition of the Ottoman Empire form the main subject. The periodical doses of western "reforms obtained sense form the main subject. The periodical doses of western "reforms obtained sense form the main subject. The periodical doses of western "reforms obtained sense form the main subject. The periodical doses of western "reforms obtained as appearance of a supplementary volume by the same hand would be a reampletoly satisfactory answer to all such criticipans.)

Greek Philosophy. Part I Thales to Philo. By Jour Buaser. Ph. 360. London: Marmillan & Co., 1914. 10s. not-

Professor Burnet divides his account of Greek Phinosophy into these books. Book L. "The Winth, deals with the Presseration from Timber to Laureppins; Book II, "Know ladge and Conduct, deals with the Sophists, Socrates, and Democritus; Book III, 'Plato, is half as long again as the other two and attempts the task of reconstructing, from the later Dialogues and from Aristotle, the views of Plato. The writing of the book is throughout concess and pounted; long footnotes are avoided; and Professor Burnet is to

be congratulated on compressing so much material into so short a space.

In Book I Professor Burried is unach halped by his own excellent Early Over Philosophy. He does not used to argue disputed points at longth. He is able to write with treadons assuming the results of that entirity. Those who have already directed that book will find the circuit here given valuable and attandating, bringing into ratiof the points which are of importance for the later history of philosophy. But the new rolams is not at all a textbook for beginners, and Book I should not be allowed to serve with such students as a substitute for the Early Greek Philosophy. The fact in that the true thome of the book is Socrates and Plate. The Pressecrates and the Sophists serve as introduction, while Democritis, to his cost, intersume between Socrates and Plata, and is therefore dismissed in nine pages as an irrelovance. Professor Parnet is no doubt right here as to chronology, but he is a little pervise. Chronology it not everything, and the book would be improved if Democritus were treated more adequately either at tim and of Book I immediately after Lencoppus or varior in Book II between the Sophists and Sperates. The Sophists are kept rigidly in paraperties. Protogoraalose is treated is movelent fully in an excellent metion which establishes his date is source of frequent errors), relates the story of his trial, and gives him the prominence which he deserves.

There temains Sciences and Plato, the strain to which all class is probable Professor Burnet called in his briroduction to the Phonds for a new history of Civals Plantomphy which should proceed on the hypothesis that the words which Plane putinto the month of Socrates represent on the whole the doctrines taught by the historical Secretes during his life, instead of on the appears hypothesis that they represent on the whole the tasking of Plato. Instead of weking for an indigestible resillation that we may call Socratic so are to look for a residentia that may be called Platonic Section that in the later dialogues Socrates is not as a rule the chief speaker, which gives a pre-uniquian that Plate is, the emilipseed results obtained by the latter procedure is likely to be smaller than that the intend by the former. Even the onemon of this hypethesis must welcome the attempt to verify it in use and applaud the prinspine - with which Professor Burnet has executed his belf-imposed tank. Would that all the uters of hypotheses were equally prompt and hand?

Secretes is dealt with in three alapters. The first gives an account of his life, based mainly in Plans. All historical and descriptive statements about Secretor contained in the Platonic writings are taken as true, and the muche from Delphi is given the importance which the spaloge gives it. The cruck was the beginning of Socrates 'public mission.' Before it came Socrates had been a more philosopher, discussing with his pupils problems of science and religion and developing his new theory of Forms. After it he was a miblio man, ready to meet all and samiry. At the end of his life, m we are told in the Chords, he reverted to the problems which had occupied his youth The crastle should be dated about 435, and Aristophanes Cheek appeared in 423. But the Secretes of the Clouds is the Secretor of the time before the oracle. The carriesture. flien, was distinctly our of date; and the only explanation offered of this is the fact that Sources mission was interrupted by fighting at Dellon in 424 and Amphipolis in 422. The discrepancy of time does not seem to be fully accounted for In a second chapter the philosophy of Secretes is reconstructed from the dialogues of Plate up to and including the Republic. When Philolan left Gresce, Socrates became to all intents and purposes the head of the Pythagorous who remained behind, sharing with them the destruct of Forms, the belief in immurality, with its corollary, reminiscence, and come of the mysterism of the Pho th Symposium, and Phospha. The practical absence of any mention of the theory of Forms to the earlier dialogues is apparently explained, first, by the fact that the Forms belong to the earlier Socratic period while these discussions belong to the later 'public mission,' secondly, by the distinction between an inner and an nature circle. In a third chapter the problem of Socrates' trial is discussed. Professor flurnet holds that the true ground of condomnation was political. Socrates was pastified in treating the indictment with contempt, since it was a more protext made necessary by

the annesty proclaimed upon the restoration of the democracy

Limitations of space made it difficult for Professor Burnet to be quite explinit at every stage of his highly controversial argument, and the foregoing account may in some dagree unsuppresent his views. Professor Burnet seems to think that Socrates began by keeping a school after the fashion of the Ioman physicists, and neggests that he may have succeeded Archelaus (sinder whom he is said by Aristoxonus to have studied to many years in hand of his school. The Physiolisterium, as he truly remarks, is not the best like any applicable enterprise but might pass as a correctors of that. The suggestion is made very tentatively and is not worked out: but Professor Burnet's plea for the enjectanical train of the Arecophanic carrenture small be greatly strengthened if it could be worked out satisfactorily. Clearly there are many difficulties in the way of accepting each a hypothesis. Plate offers un evidence in support of it, and no such school is known to later historics of philosophy. But if it existed, it is almost meredible than its manury should have perudual, with the Counts to keep it trush. With this is connected the quantion of Someter relation to Pythagorumban. A fuller and franker treatment of this operation, with all the evidence set out, is very badly needed, and it is in he hoped that Professor Burnet may one day attempt it. As it is, by exrefully mediug together the scattered notes and notices contained in the Early Greek Philosophy, the edition of the Phaselo, and ther book, one gets a fair idea of Prairison Burnet's opinion, but little idea of the criticals on which is is based. To us the inferences drawn from the Phaselo seems to be more definite than the dislogue warrants. That the theory of Forms was parily Pythagorean Professor Burnet has often asserted; and he here tells us that the difference which Secretes usuals in a consisted in "the systematic inclusion of what we should call moral and assolutio forms on an equality with the mathematical (\$ 129). But the forms or "figures" excepted earlier to the Pythagoreans are those of immical surles and of numbers represented by dots, and have at first eight nothing in common with the Socratic forms which are (as Professor Burnet knowld says m. § 126) predicator. Some of them may be called mathematical, but they are not figures : the typical instances are not spipmen, retpayene, but love, missrow. Again, it is a favourite idea of Professor Burnet's that the later Pythagoreans under Philolaus became 'scientific' and dropped this mysticiam of the School's sarly days. Accordingly the Socratic Orphusa is Socratic in manothate origin and not Pythagorean; and 'the friends of Philadans were annoyed business Socrates . had revived the mystical side of Pythagoreanism, which they believed they had get zid of once for all '(\$ 118). Yet the one distrine on which in the Placedo Simulas and Cebas expressly admit to having received instruction from Philolane (though not in great detail is the religious probabition of suicide. Here also turther elgoninicat is required.

The account of Plate begins with a biography, based mainly upon the Epister. The above of education laid down in the Republic for the grandines is taken as a reliable source for determining the programme of the Academy. Professor Burnet socks to destroy the legand of a foud between Plate and Inscretes, and argues that the chief contemporary influence upon Plate's thought was that of Eukleides and the Megarian-to the later chapters Professor Burnet deals in succession with the paried of 'critician,' represented by the Theoretica and Parasonides, Plate's logic (the Sophid), his political and educational theories (Politicas, Louis, the Southan enterprise), the 'philosophy of numbers' (Aracole and the Philosophy, the 'philosophy of marriant' (the Treasure)

From this summary it will be apparent that Professor Burnet finds more Platonic matter in the Platonic dialogues than a resider of the Introduction to me edition of the Pheede might have expected. The task, he there exist, 'of reconstructing Plato's more mature philosophy from the unsympathetic criticisms of Aristotle is a delicate but not. It believe, an impossible one,' Yet here is an account of Plato's philosophy which gives Aristotle enly half a chapter out of six. Professor Burnet says explicitly, 'I do not regard the dialogues of Plato as records of setual conversations, though I think it probable that there are such embedded in them.' /\$ (10). We are allowed to treat Sociates tribute to isocrates in the Phasiline as in a sense Plato's (\$ 105), and the confessions of Manu and Alcihoules to the unsantible spail of Sociates personality may be taken 'as evidence of the effect produced by the discourses of Sociates on Plato himself in his youth '(\$ 109). Traces of distinctively Platonic decrine are similated in the Phasiline and in the Symposium (\$ 168), and much of the later part of the Republic of philosophy, the scheme of education) is pure Plato. Thus a good deal more than half of philosophy, the scheme of education) is pure Plato. Thus a good deal more than half

of the Platenic corpords, after all, accepted as in every sense Platenic.

The story of Plato's life as it emerges from Professor Burner's hands may be reaghly summarized an toflows. His earliest memories would be distillated by the figure of Socrates, whom he knew very well, though probably he see never alimitted to the timer nirch of "seconds In the years following Secrator" death, be composed in rapid succession with a poraly artistic interest, the early dislogues, intended to perpetuate the figure and conversation of the master. By the time he was forty, when, as we know from Ep. vil., he visited Italy and Smily for the first time, the miscalled Socrable dialogues would be completed, - well as the Symposium and Phusia; the Republic small be at heast well advanced, and the Phastyne is 'not very much later.' The end of this period of literary activity would coincide roughly with the foundation of the Academy, and what there is of Platonic matter towards its end is due to the luthrouse of that approaching event. Then follows an interval of nearly twenty years during which Place was birsy tenching and dereloging his even philosophy. He was marly sixty show he took up his pen once more to define for the bounds of a larger public than his locustes could reach his relations to rival schools of philosophy. That is the object of the Thursdays and Paramaides. Both dialogues were written when Plato was still dominated by the influence of Eakholdes, but already beginning to revolt against it. Contemporary theories of knowledge of doubtful antiborchip) are discussed in the Theories as, while the object of the Permander is to show the dedeinuries of that Secretar theory of Forms which Plans half lamself expounded in the Physics and Republic. The criticism follows Electic Megarie lines, and Plate assaus to represent himself here, as in the Sophist, as) the true successor of Parmannias. The Septent to considerably later, and when it was written Plate had already broken with Magaza. "Sophist indied in this dialogous money Megarian, and the secretal definitions of the term have no reference to Gorgies or Protogeras The philosophic subject of the dialogue is the possibility of significant negation, which the M-parisms under Electic influence, had denied. The Sophist was closely followed by the Scatterman, which gives us Plazo's political views less anti-democratic than these of the Republic; for Plate was a Whig and did not show the oligarettic sympathies of Speciales. Pago's final essay in politics and education, the Love. was occasioned by the unsuccessful attempt to collaborate with Dianysius at Syramou. In the Philelius we get a partial statement of Plate's untrayest thought, provoked by contraverses within the Academy between Spensippes and Endowns on the subject of pleasure. Lastly in the Pieures we see Plate playing with Pythagoreanism, Constructing a full-serious cosmology with the and of its theory of Forms. For a cosmology must always law a myth or story, and cannot be screece; a purely Platonic cosmology is therefore out of the question.

In all this Professor Burnot exposes a very broad from the criticism. The latter part of the book is full of striking suggestions for the interpretation of the dislames, each of which deserves a detailed discussion. Sometimes he is unduly allowed, as in the account

of Analysis and Thvision (88 167, 168) which avoids explaining the mounting of the terms altogather. But the total impression produced is such as to silence heaty or fragmentary criticism. These few chapters are undoubledly a contribution to Platonic study of the very first importance, there is nothing stale or second-hand shout them, said they require for their criticism little less than a re-reading of the text of Plato. Aml while their value is in a great measure independent of Professor Burnets main hypothesis, they are yet the most convincing testimony to the soundness of that hypothesis that has as far appeared. We doubt if anyone who disserved with the Introduction to the Phonfo will be able to lay down this book without a faciling that Professor Burnet is a

good deal nearer to the truth than he formerly believed.

It will be admitted that there is no extent account of Plato which is free from illconcealed difficulties and controllistmus, to which we are only deadened by familiarity. If we look cardidly at Professor Burnut's version, making thin allowance for very deepscated propulice, we shall find-possibly to our surprise-that it is certainly not more erfficult or contradictory than the strongest of his rivals. But there is a further deduction to be made. Professor Formet, for all his twenty years' study (p. 349) of Plato, is a mere tire at the exposition of his hypothesis compared with the youngest exposition of the other. An army of producessors has not been at work to strengthen his weak places. He has had to do the work himself, and, brilliantly so he has done it, ports of the defences are bound to be somewhat tentative and provinced. Making the allowange, small, for this fact, we are bound to conclude either that Professor Burnet's page and provess is moon parably greater than that of his eminent antagonists, or that his position is narrorally much atronger than there. Which alternative is to be preferred ! Much as we request Professor Borner, we are inclined to adopt the latter,.

J. L. S.

Namesios von Emesa i Quellenforschungen zum Neuplatenhamm und seinen Anfangen bei Pesseidennes. Von W. W. Jagorge. Pp. 143. Berlin : Weidmann.

Normalize was a Christian Bishop of Emeso in Spris towards the and of the fourth whenever of our gra. He write a trustien will discount despitation showing a curious mixture of Pagan and Christian learning, parts of which have some down to us under the name of Gregory of Nyess A new edition of this work, we learn from Dr. Jaeger's pretace, will shortly be prediced by Dr. Burkhard of Vienna. The extracts from Nemonica which were included in the third part of Von Armin's Storooma Calcount Franciscota showed plainly that valuable material for the later blatory of Stoicism and for the relation of Spiceson to other philosophies was to be found in the treatice; and what Dr. Jaeger here attempts is to discover the main sources upon which Neuroscov relied. and in in enable us to estimate more precisely the importance of his evidence. He three get deal with the whole work, though he thinks that it would repay a thorough analysis, but with a few chapters which seemed to be particularly instructive. The discussion is regarded, as the sub-title explains, as spain work preparatory for the honorical account of New-platonism, that will some day be written. With equal justification, says Dr. Jangur, 'I might have culted my work simply "Enquiries concerning Possidence." For Posseidenius is the true founder of Nec-platenium, and recent researches make it increasingly clear that his eclecuse system was by far the most powerful influence operating upon the philosophical and theological speculations of the Roman Empire; infield, considering the length of its duration and the range of its extension, we may doubt whether his sway over the human mind was not more absolute than that of any philosopher before or since. For though Plate and Aristotle were always greater manne, Posentonios was the medium through which they were seen, the accepted interpreter and harmonizer of their doctrines.

The treaties is divided into two parts, the tree boaded 'Galer's theory of knowledge and the older Nee-platenism, the second headed Possidonism Matuphysics (Website scheroung) in Nomesics.' Under the first head Dr. Jacque deals with the six chapters concerning sensation and the senses and the two chapters concerning sense and memory. For the account of the senses the main source is Galen's lost work in lifteen books, wen dwale fear, of part of which his surviving appears of Plato and Hippograves gives us a compressed version. The inference to the last work is based on a comparison of Nameson with the relevant passages in the expension. The character of Galan's doctrine, a compound of Platonic and Aristotelian unitter with a dealt of Epicurus thrown inagreeing in important details with Plutinus, Essileson, and Philo, points to a neo-platome source. The account of Memory is partly drawn from Galen, but the greater part is frankly mo-platonic and is probably drawn from Perphyry's west because were. Throughout these chapters the dexography is in varying degrees divergent from Action. and Dr. Jaeger thinks that Porphyry at any rate got his information from the school of Passidonius, which, as Diels has pointed out, formed doxographies of its own. Thus, though no direct path to Possidomos is found in this part of the country, a good many converging probabilities point in his direction.

his the second part Dr. Jacger directly faces the quastlen whether the metaphysical destrines of Nemesius show signs of Posenionian influence. He begins with the theory of the four elements and their interchanges, and shows a community of condency between Nomeslus and writers as far apart as Galen, Basileica, Chalcidina. The segme of wide doxographical learning and of extensive medical reading, the position accorded to the Timerens, the general combination of Platonic and Aristotellan ideas, together with much distailed evidence, point to a use platonic source which must be in the last resert Possidonics himself. This conclusion is correlated by an investigation of the notion of 'Syndemos,' i.e of that indimentary evolution-theory which refused to admit any addes natures and attempted to break down the apparent dispurities of execution by the discovery of intermediates. The nice may be said parhage to originate with the Tomores of Phate and was rectainly not without onlineace upon Aristotle. This is the most interesting abujuer in the back and deserves careful study. It ends with an account of the position of man and givilization—that assuent field of contraversy in which late Greek theagin sought to combine all the condutants, Democritus, Epicurus, Academic, Peripatethe, Cynic, Slote, in a lasting posen. Here too the 'Syndeanos' blue has its application; for man is him all the link between beaven and earth, and here the Microcommus doctrime of Democritus and Possidenies julus famils with the Bilds story of the Creation. In all this the original synthesis was that of Powidenies, and his invallectual force was so much greater than that of his followers that his ideas still survived and triumplied four or five hundred years after his death, when his name was almost forgotten.

Such are Dr. Jacque's contentions. They are expounded with the thoroughness and incidity which is to be expected from him. A supplied reader may refuse to be nonvinced; he will easily find loopholes through which doubt may enter; or be may take refuge in the general criticism that such enquiries loud in the end nowhither Often, indeed, it does seem regretiable that so much bearing and acumon is spent on these source-hunting expeditions; and if anything in quite certain it is that nothing of real philosophic importance can be discovered in this way. So that the philosopher is inclined to join the sception. Still the sport is difficult and avduous, and it would be climbed to withhold appliance and gratifude to these who face as hardships and chorcfully hope that they are contributing to great results. However, we should be glad to welcome

Dr Jueger back to Aristotle

Catalogue of the Greek Coins of Palestine (Galilee, Samaria and Judaea).

By G. F. Him. Pp. oxvi + 364. With one Map, a Table of the Hebrew
Alphabat, and forty-two Plates. Printed by order of the Trustees of the British
Museum. London 1814. £1 10a.

In soops and general plan the latest volume of the British Museum Catalogue of Greek Corns is a notable contribution to the series of which it forms a part, while in excention it is entirely worthy of the author's reputation as a scientific numismatist. This is high praise, but the verdict is not likely to be called in question by suyone who is in a position to measure the extent of Mr. Hill's achievement. He was, of course, fortunate in the wealth of the material that lay at his disposal; the acquisition of the Humburger cabinot has carried the British Museum far ahead of any of its continued rivals, at far as its store of Palestinian pieces is concerned. On the other hand, the difficulties were of a very special kind. The related Justorical records are less illuminating than might have been expected; the legonds are to many cases extraordinarily crabbed and hard to decipher; the types berray hardly a glimmer of artistic merit to relieve the tedious task of accurate classification. At the same time the problems involved are not solden interesting and important. It is, therefore, most satisfactory to have them dealt with by such competent hands. The book, it must be remembered, is much more than a descriptive account of the comments of the national collection. It is virtually a sorpus of all known varieties, accompanied by a complete critical apparatus of everything necessary for their proper interpretation. The uniformly of those who take it up will probably turn pret to what Mr. Hill has to say about the 'Maccabanan' abekels. They will find that he halds that to the view-originally propounded by The Remark but afterwards abandonal by its author-that these much-discussed coins were struck during the First Revolt of the Jova against Rome; and they will not fall to be interessed by his analysis of the engraphic evidence, which has never before been sitted in an averaguatio a fashion. It is worth noting that since the appearance of the Catalogue it has been hinted in the Royas Hildigas that during recent excurations in Jerusaless some of these shokuls have actually been discovered in association with contemporary Roman denarti. Should this prove to be said will be a conclusive vindigation of the seamdness of Mr. Hill's position. Though this is the quaestic sexutissions of Palestinian numicontics, there are others bandly less controversal. They are loss technical for detailed reference in a brief notice of this kind, and it must suffice to say that all alike are been treated with fullness of knowledge and infalling sobriety of judgment. Special mention may be nowle of the passages in the Introduction which touch upon the cults of Gasa and upon the unsque aliver com with the image and superscription of Yaliweb. A wise liberality has been exercised in the provision of forty-two colletype plates, and the indexes are admirable.

Tabulae in Usum Scholarum. Editae sub cara Ionaxyos Lierznany. Bonnae A Marom et E. Weber. Oxoniae Apuil Parker et Filium.

The volumes of this excellent stress will be heartly welcomed alike by students and teachers, and can without exaggeration be described as nearvals of absorptess. The first of the three here to be seviced contains fifty photographic facciniles, almost all of them remarkably clear in spite of the reduction in size sometimes more sary, of Greek MSS in the Vatican. A more fully representative selection might no doubt have been got

Specimina Codicum Graecorum Vaticanorum. Collegerant Pres Francus ne. Cavalient et Ionannes Lieuzmann. Pp. xvl. 50 Pintes. 1910. 6 M. or 12 M.

Specimina Codicum Latinorum Vaticanorum, Collegerant Franciscis Emere S. J. of Parities Lienarder, Pp. exavt. 50 Plates, 1912. 6 M. or 12 M.

^{8.} Specimina Codicum Orientalium. Coalegis Econsius Tissasasv. Pp. alvii 80 Plates 1914, 20 M

had other liberries been drawn on as well, but so rich are the messures of the Vations that the editors contrice to find specimens of nearly all the main types of excipt found in Greek vellum MSS. Unomia are represented by seven well shown plates, including of course faccioniles of the Codex Varianum and the Codex Marchalianue. Phila 3 to a specimen of the curious minusuals script which represents an earlier attempt than the fully developed minuscule of the ninth century to adapt the current curate to Harry uss (Thumpson, Palacography, 1912, p. 218) The ordinary minuscule is represented by a series of specimens ranging from the year 89, to the year 1555; nel many different trues, the stiff early series, the conservative littergical hand, the eloning literary lumi, the much abbreviated hand mod in broke intended specially for students, and the calligraphic hands of the fifteenth and sixteenth conturios, are represented. The editors towo rightly chosen, as far as possible, dated MSS.; and they are equally to be commanded for noting, in the head descriptions at the beginning of the rolams, the provenance of the MSS, when it is known. It is interesting to compare with the Eastern MSS, a certain number written in the West, such as are shown in Plates 16 (Calabrie), 17 (Capus), 22 (Smily), 31 (Otranto), 38 (Lower Huly). For purposes of percent study it would have added to the confulness of the volume had the descriptions material more communitary of a definitely palaeographical kind, calling the student's attention to the characteristics of the various hands illustrated. It is very difficult for the beginner (for whom no doubt these volumes will be specially useful) to note essential se opposed to unessential pounts of difference between the hand of one MS, and that of unother without such assertance.

The other two volumes do not fall strictly within the scape of this Journal. The Latin volume contains fifty places, also well scheeted, with a brief polacographical summary. The nighty places of the Oriental volume are divided between the various languages as follows.—Samaritan 2, Helmow 17, Syruc 18, Palaestinian 2, Mandatite 1, Arabic 21, Arthopic 5, Copale 13, with 1 polygon MS.; but many places give specimens of two many mark MSS.

The Primitive Text of the Gospels and Acts. By Atamar C. Clarg Corpus Probased of Latin. Pp. viii +112. Oxford, at the Clarendon Press, 1914. See 44, not.

Whatever may be the altimate indigment of Biblical scholars on the these advanced by Prof. Clark, there mu he no quadran that this book is of an imputance quite out of proportion to its aim, and that the arguments contained in it will have to be taken into consideration by future critics of the New Testament text. Prof. Clark's thesis is, briefly that the 'Western,' and not the Eastern,' the longer, and not the shoreer, text of the Gospels and Agts is the primitive one; that the process which has led to the water divergenose between MSS, is one not of interpolation but of universe; that it and N. which bithorto it has been an article of faith with modern critics to regard as the third conflucity on disputed pounts, are of inferior authority to D and the auxignt versions. He is all course, not the fire to suggest much a view the movelly and importance of his book the in his line of argument excher than in his conclusion. So long as the point at leanwas discussed only on abstract and general grounds, a book more or less on one side or the other, though it might bein materially towards a general agreement, was not likely to he final; but if Prof. Clark a thesis is sound we seem in a fair way to getting a anothematical doministration of the case for the "Western" text. This there is one derived from his similes on the text of Cicero, with which, rather than with speculations on the New Testament, most readers will associate life name. These Camerian studies have convinced him that the maxim brester fectio perior is a false one; and in his preliminary chapter he quotes numerous instances, most of which admit of not the slightest doubt, of the omission in MSS of one or more times of their archetype. Now

Prof. Clark noticed that short passages unditted by one MS (or group of MSS.) or another very often contain approximately the same number of letters; and when longer omitted passages are examined they are found to contain multiples of this number. In this way it is frequently possible to determine the average number of letters per line of a particular lost archotype; and if a disputed passage emitted in MSS, known to be derived, directly or indirectly, from that archetype is found to contain the line-number or any multiple of it, this fact raises a presumption that it is a gennine portion of the text, omitted by the skipping of a line or several lines or even, in some cases, of a column Having found that this method yields satisfactory results in the case of Cicaro, Prof. Clark resolved to apply it, as an experiment, elsewhere ; and the present volume records his observations in the case of the Gospels and Acts, upon which he began, with no bias in favour of the 'Western' text and indeed suprepared to question the soundness of the provailing view. He examines in turn some of the most funne Greek MSS as well as several of the ancient vernious; and limiting that a very large number of disjurred passages contain approximately the same immber of letters or a multiple of it, he concludes that the longer 'Western' rather then the shorter 'Eastern' text represents the primitive form of the narrative; the latter being due to a recension by editors sometimes of interpolations and ignorant of the laws which guide the modern to dual critic. He boliovathat the main line of transmission in the case of the Gospels was through MSS, written in narrow columns, but that the Acts were transmitted through MSS, arranged in greyes

The present curlower is hardly prepared to princular definitely as to the soundness of Prof. Clark's theory. It mind, of course, be judged in connexion with other lines of argument, which do not full within the scope of the volume under review; and besides the extraneous considerations there are corrain objections which must be berne in mind. The case of Cierco is in this respect difficunt from that of the New Testament. that doctrinal motive make interpolation inhomently more likely in the latter. Again, the theory of ourselon presupposes in view of the large number of disputed passengers great corslessness on the part of scribes; and although students of MSS will not comthat a etrong objection it may be held to have some weight. Those is, too, a danger, when we start with a theory of this kind, that we may force the evidence a little, wither by allowing too great a variation in the line-length (e.g. counting all cases of 7 or 13 letters as falling under an average length of 10) or by attaching too little weight to metances which cannot be reconciled with the average length; and we have, too, to make allowance for more coincidence. Finally, it must be remembered that the line-length is not always the same in the same MS. for example, the British Museum papyres of Laurentes De Peice is written in narrow columns at the beginning, but as it proceeds the hand grows more compressed and the columns broader, so that the line-length steadily increases. Nevertholess, Prof. Clark's argument is an exceedingly strong one, and he has made out so good a mass that supportant of the ruling theory will have to examine it very carefully and to bring forward equally strong arguments on the other side if they

are to regard their own position as secure.



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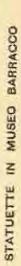






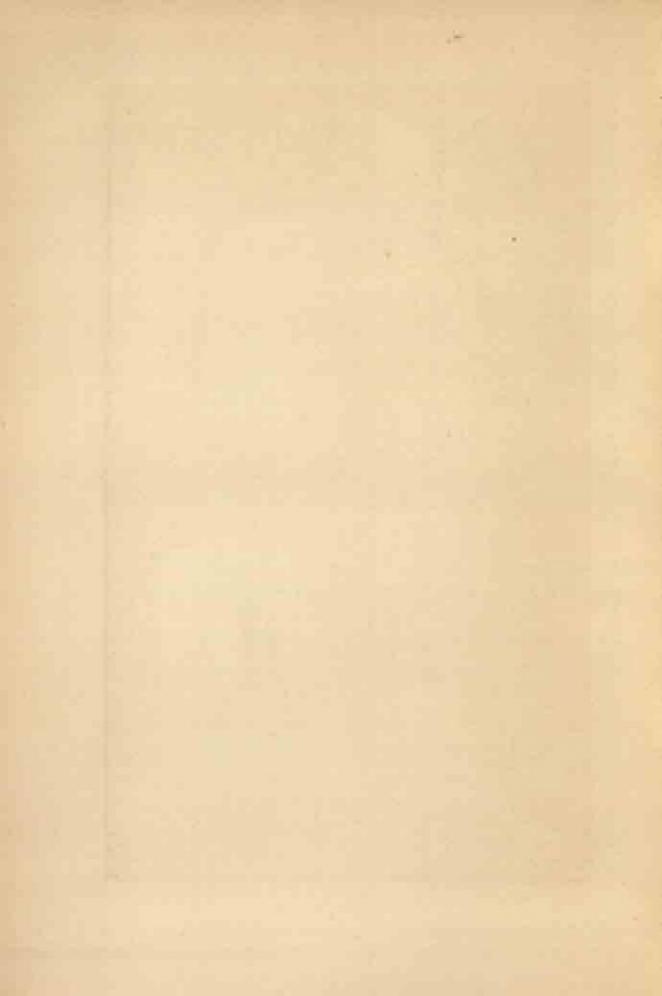


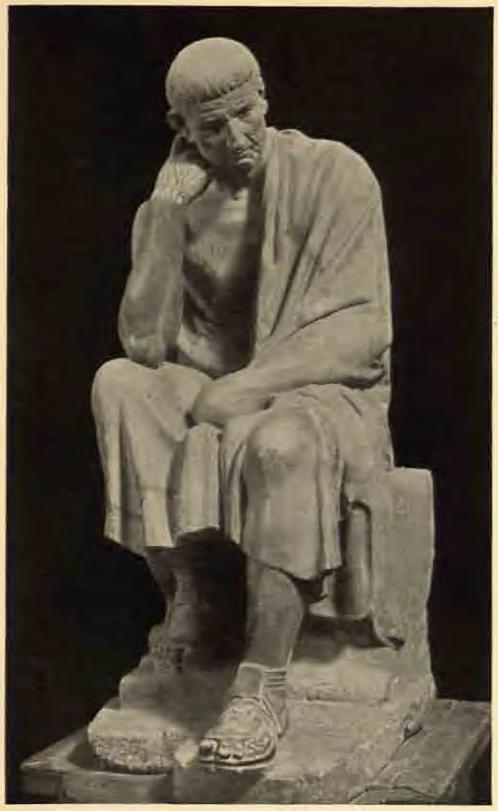












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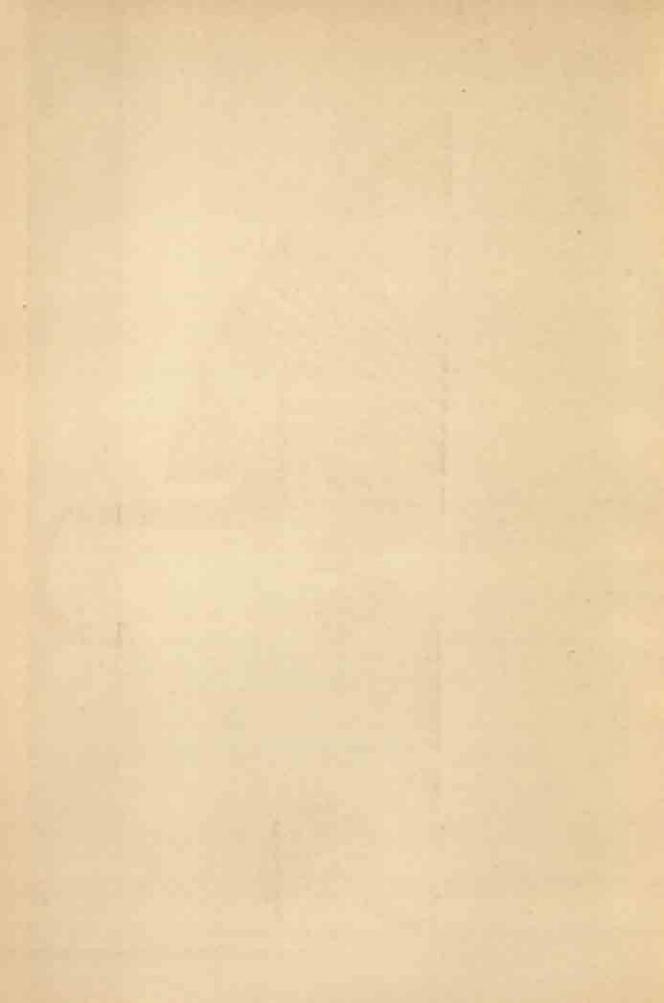
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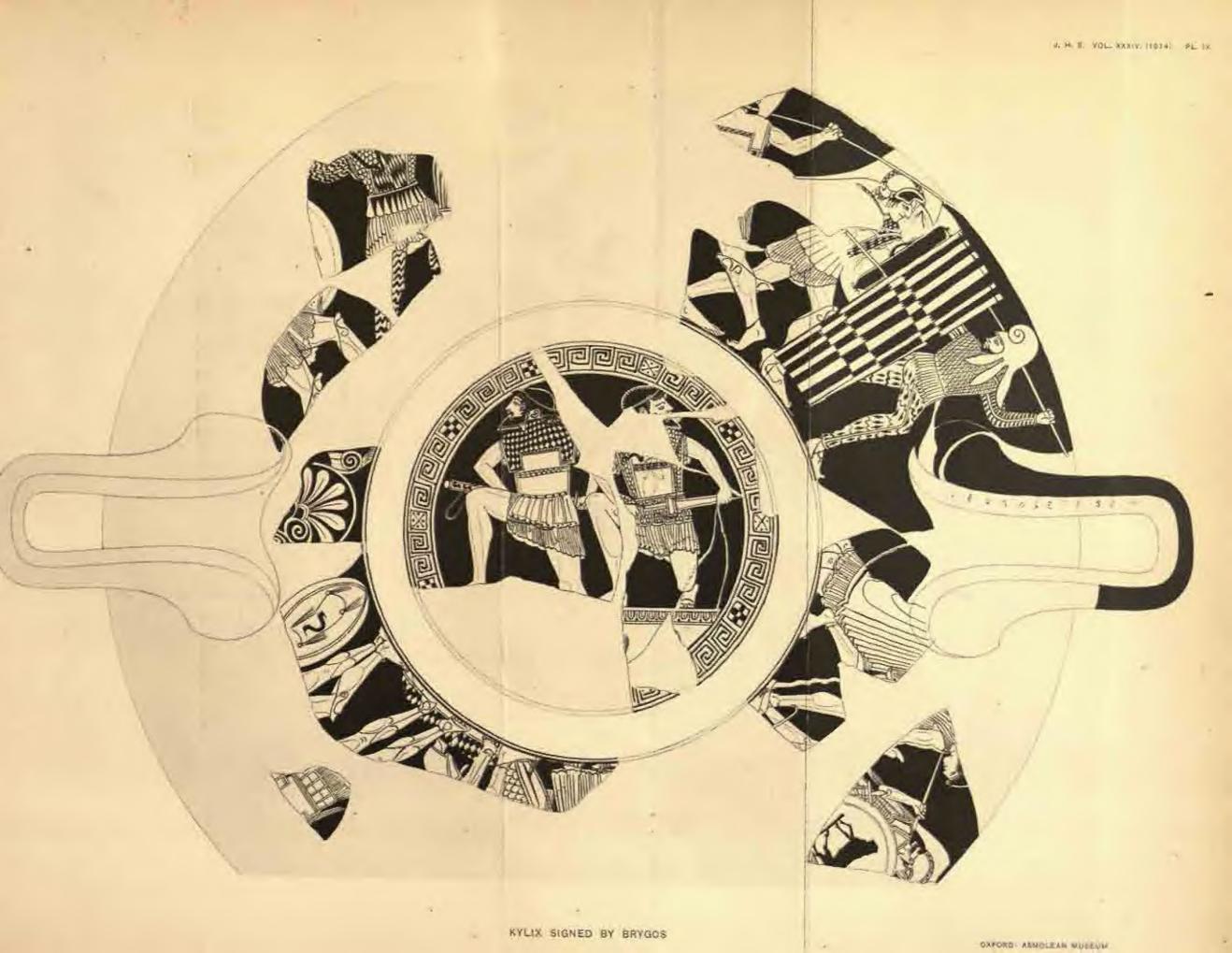


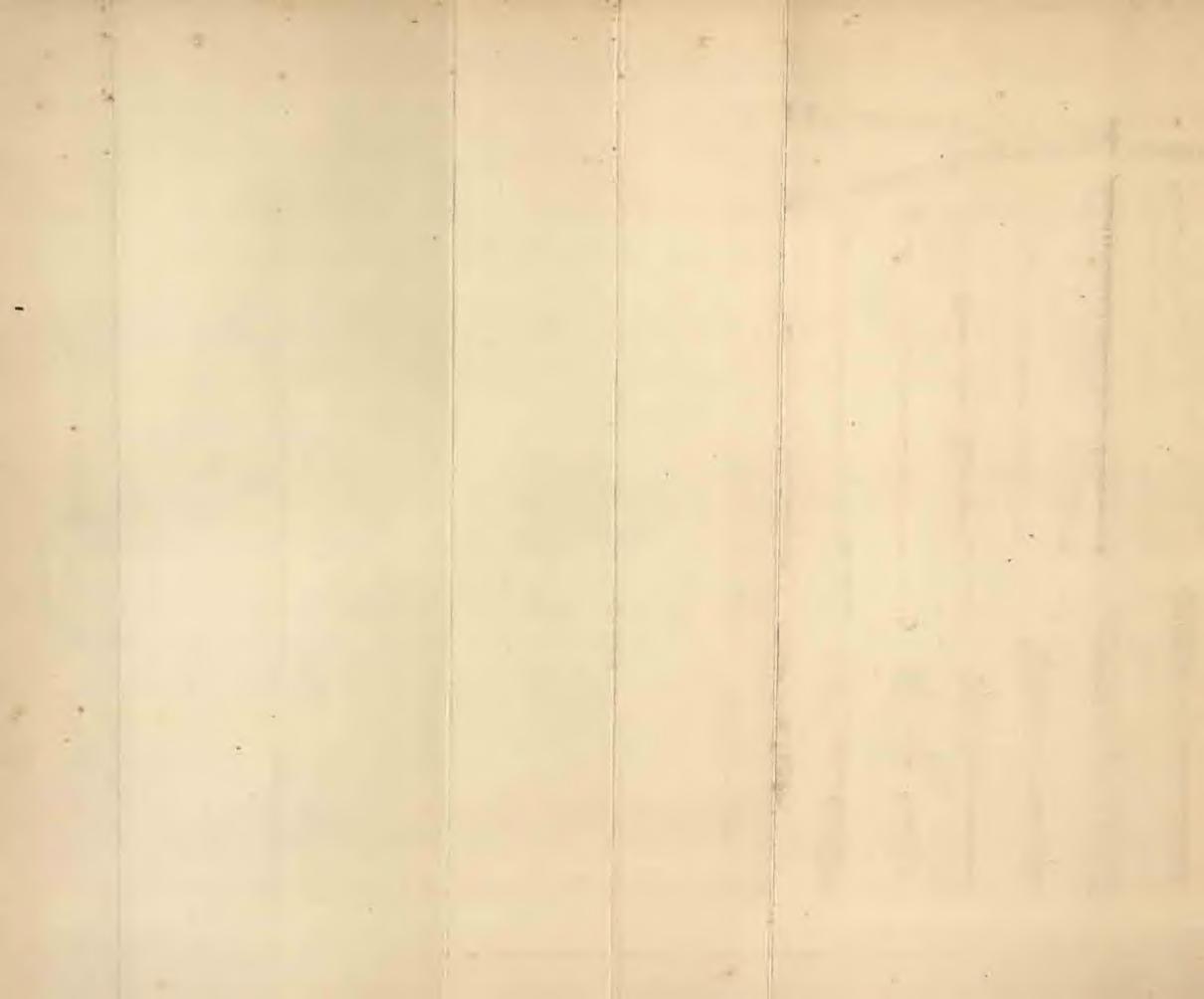








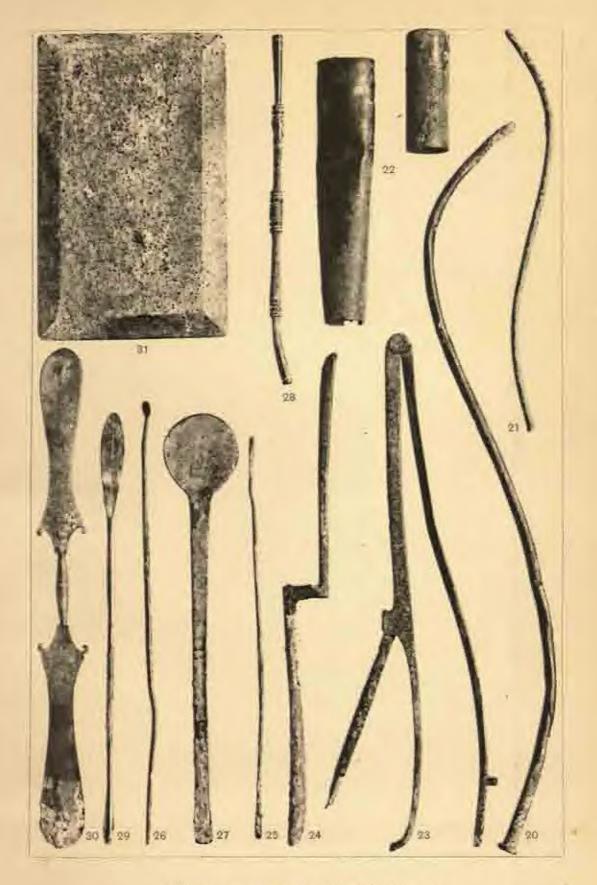






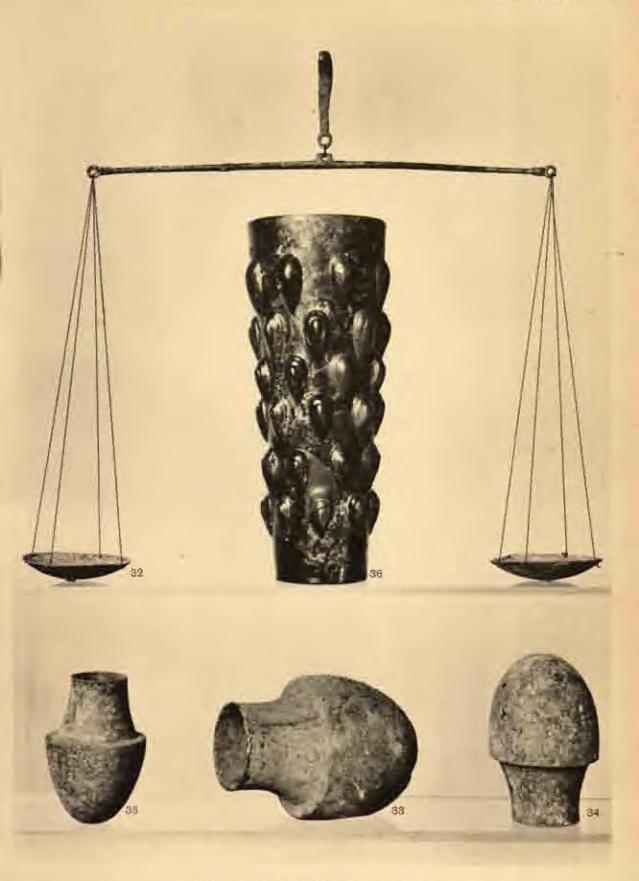
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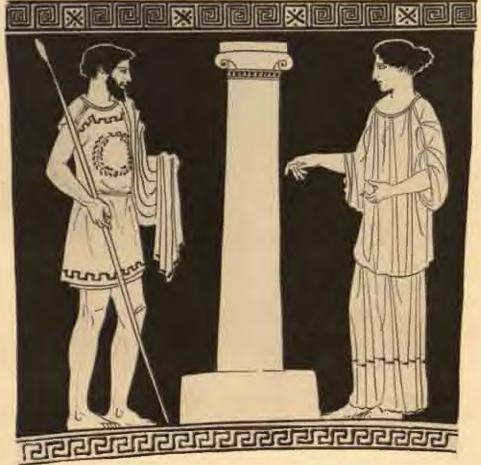




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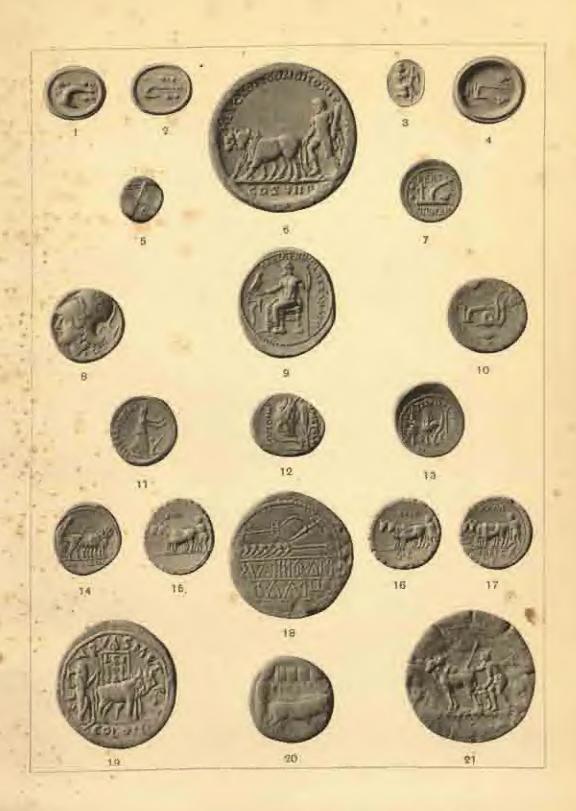




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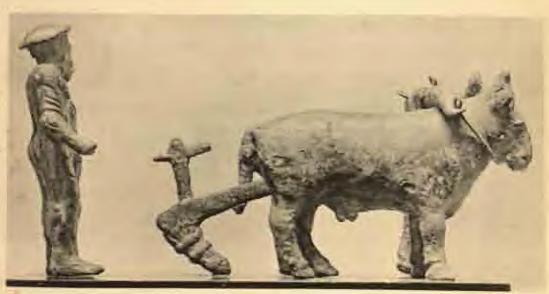




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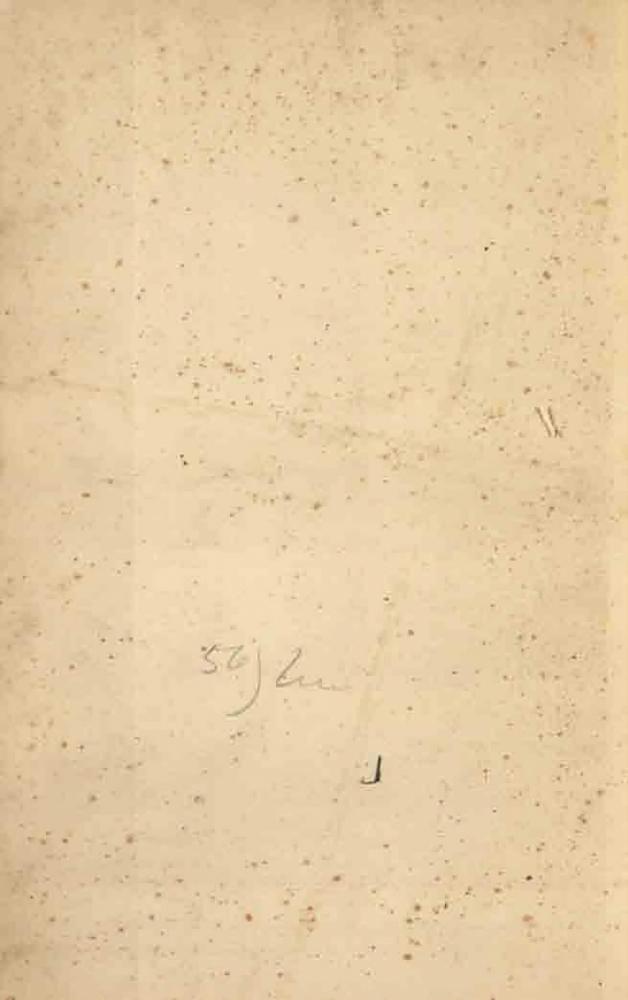
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